

State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for
Quotation
DJS01029
TARA LYLE

DJS010296

304-558-2544

DIVISION OF JUVENILE SERVICES

VARIOUS LOCALES AS INDICATED BY ORDER

RFQ COPY TYPE NAME/ADDRESS HERE NewTech Systems, Inc. 420 16th Street PO Box 310 Dunbar, WV 25064

| DATE PRINTED TERMS OF SALE 04/26/2011 | | | | | 3. | IIP VIA | *************************************** | | | 300003860 | |
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EXHIBIT 10

REQUISITION NO.: DJS 010296

ADDENDUM ACKNOWLEDGEMENT

I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.

ADDENDUM NO.'S:

NO. 1

NO. 2 -

NO 3

NO. 4

NO. 5

I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS. VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.

SIGNATURE

Newtech Systems INC

COMPANY

MAY 4, 2011

DATE

REV. 11/96



State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

TARA LYLE

304-558-2544

DIVISION OF JUVENILE SERVICES

VARIOUS LOCALES AS INDICATED BY ORDER

RFQ COPY TYPE NAME/ADDRESS HERE NewTech Systems, Inc. 420 16th Street PO Box 310 Dunbar, WV 25064

| 03/11/ | 2011 | | *************************************** | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | |
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DATE PRINTED

State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

TERMS OF SALE

Request for Quotation

DJS010296

PAGE 2

FREIGHTTERMS

ADDRESS CORRESPONDENCE TO ATTENTION OF A T.VT.F.

FOB.

TARA LYLE 304-558-2544

RFQ COPY
TYPE NAME/ADDRESS HERE
DIVISION OF JUVENILE SERVICES

VARIOUS LOCALES AS
INDICATED BY ORDER

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State of West Virginia Department of Administration Quotation Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

Request for p

TARA LYLE

304-558-254<u>4</u>

RFO COPY TYPE NAME/ADDRESS HERE

DIVISION OF JUVENILE SERVICES

VARIOUS LOCALES AS INDICATED BY ORDER

FREIGHT TERMS TERMS OF SALE SHIPVIA FOB. DATE PRINTED 03/11/2011 BID OPENING DATE: 01:30PM BID OPENING TIME 04/07/2011 CAT UNIT PRICE AMOUNT TEM NUMBER QUANTITY UOF LINE SEALED BID -TL/32-BUYER: --DJS010296-RFO. NO.:----04/07/2011--BID OPENING DATE: -1:30 PM-BID OPENING TIME: PLEASE PROVIDE A PAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID: 304-766-0003 CONTACT PERSON (PLEASE PRINT CLEARLY): Mike Bryant \$311,932.00 THIS IS THE END OF RFQ DJS010296 ****** TOTAL: SEE REVERSE SIDE FOR TERMS AND CONDITIONS DATE SIGNATURE FEIN ADDRESS CHANGES TO BE NOTED ABOVE TITLE WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

| | | 3) NA - 982010SFQ | DuS010296 - DVR Camera System Equipment | ient | |
|-------------|------------|---|--|--|-----------------|
| 110 W # 101 | QIQ. | Descripcion | Model | linit Peica | Extended Amount |
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| age | Š | Pelco Model KBD20008 Vari Speed PTZ Itoysildkor Equel | | 1.084 | 13,008. |
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| ∓uo .er | 10 | Pekta Makeli Structwie Day Wide Dymanickange Camere 3-Ann Lens or Edual | | | \$ 1,695.00 |
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| 14 | ığ | Bekalillodel IMIDG10-1 Indoor fixed Daine. Camera, 2:6-10 mm lans on Equal | | \$ 464 00 | \$ 2.320.00 |
| 8 | υß | Pelga Model 1899 BORV 9 Indoor fixed Mint Dome Canera 3-9 Jann Lens or Equal | | \$ 180.00 | |
| 9 | ίĠ | Pelso Model 15310BDWP Indoor/Coldoor Yan Jocal Infrared Bullett Camera 3- John Kenstor Equal | | \$ 148.00 | \$ 740.00 |
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| 额 | ıĶ | Pelco, Nodel 6378 14-2 Indoor Vari focal Digital Cambra 2.8- 12 mm. ens or Equal | | \$ 259.00 | 1, |
| :23 | Ĝ | Relico (Model, STACOBWAPCAE) (22x/P12. Camera or Egual | | i . t | \$ 8.935.00 |
| 23 | Ĝ | Pelbo Model S0435-PG-E1 35x D/N PTZ: Certain presqual | | s 2,068.00 | \$10,340.00 |
| 24 | 80 | Hount Ratel | | \$ 67.00 | \$ 5,360.00 |
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| r a | | • | | | |
| | Ė | Name: NEWTECH SYSTEMS INC | Water State of the | | |
| | | Additions: 420 16th St | | | |
| | | DUNBAR WV 25064 | | | |
| | | Phon#: 304-766-0000 | | | |
| | | Emiliaddiss:mhrasatanewtechwy_com | | | |
| | | | A CONTRACTOR OF THE CONTRACTOR | ELECTRONIC DESIGNATION DE LA COMPANSION DE | |



420 16th Street Dunbar, WV 25064 office: 304-766-0000 fax: 304-766-0003

www.newtechwv.com

To: Division of Juvenile Services

Attn:

Various Locations

Quote:

MVOTQ1485

Date: Terms:

05/04/11 Net 45

Sales Tax:

Not included

FOB:

Included Expires: 60 Days

Phone:

Fax:

Project: Thank you for the opportunity to provide the following proposal based on RFQ DJS010296.

Prices include shipping to site.

Price does not include state Sales Tax or Locale B&O.

| Qty | Manufacturer | Part Number | Description | Unit | Extended |
|-----|--------------|---------------|---|-------------|-------------|
| 19 | AD | ADHD160100 | Hybrid Digital Video Recorder 16CH Analog/8IP 1TB | \$5,250.00 | \$99,750.00 |
| 3 | AD | ADHD320200 | Hybrid Digital Video Recorder 32CH Analog/8IP 2TB | \$7,330.00 | \$21,990.00 |
| 4 | AD | ADHD320200X2 | Hybrid Digital Video Recorder 64CH Analog/16IP 4TB (Qty 2 | \$14,660.00 | \$58,640.00 |
| • | , 12 | | ADHD320200) | | |
| 12 | AD | AMP48-E | Matrix MegaPower 48 Plus 48x16 with Rack Kit | \$3,073.00 | \$36,876.00 |
| 12 | AD | AD2089 | Keyboard | \$1,084.00 | \$13,008.00 |
| 12 | AD | DMV96Q-1 | Multiplexer Duplex 16ch Color | \$895.00 | \$10,740.00 |
| 8 | Oriontech | VZ-26RTC | 26 Inch LCD Monitor | \$946.00 | \$7,568.00 |
| 8 | Oriontech | VZ32RTC | 32 Inch LCD Monitor | \$1,062.00 | \$8,496.00 |
| 8 | Oriontech | VZ-42RTH | 42 Inch LCD Monitor | \$1,775.00 | \$14,200.00 |
| 12 | Oriontech | VZ-VM50 | Tilt Wall Mount for up to 130lbs | \$67.00 | \$804.00 |
| 5 | Pelco | LB3000 | Lock Box, wall mount security box | \$548.00 | \$2,740.00 |
| 5 | Altronix | ALTV2416300UL | 24 OR 28 WALL MNT 16 OUT UL PS | \$165.00 | \$825.00 |
| 5 | Altronix | ALTV2432600UL | ALTV2432600UL 24 OR 28V 32 OUT | \$243.00 | \$1,215.00 |
| . 5 | AD | ADCDEH0309TN | Discover Mini Dome, Vandal, 540TVL, 3-9mm Al | \$180.00 | \$900.00 |
| 5 | AD | ADCBW0309TU | DiscoverMini Dome Vandal WDR 3-9mm Al | \$339.00 | \$1,695.00 |
| 5 | AD | ADCDEH0309TN | Discover Mini Dome, Vandal, 540TVL, 3-9mm Al | \$180.00 | \$900.00 |
| 5 | Avigilon | | 1.0 Megapixel (720p) Day/Night Indoor Dome, 3-9mm f/1.2 | \$464.00 | \$2,320.00 |
| • | | 1 | lens | | |
| 5 | AD | ADCDEH0309TN | Discover Mini Dome, Vandal, 540TVL, 3-9mm Al | \$180.00 | \$900.00 |
| 5 | AD | ADCD601-B0001 | Discover 600 Bullet IR Camera 3-9mm Al with Altronix VR1T | \$148.00 | \$740.00 |
| 5 | AD | ADCBW0309TU | DiscoverMini Dome Vandal WDR 3-9mm Al | \$339.00 | \$1,695.00 |
| 5 | AD | CPAKWSHR2-12N | l Camera and Lens | \$259.00 | \$1,295.00 |
| 5 | AD | | PTZ 22x Dome Camera Kit | \$1,787.00 | \$8,935.00 |
| · | | N . | | | |
| 5 | AD | ADSDU835OPCW | PTZ 35x Dome Camera Kit | \$2,068.00 | \$10,340.00 |
| J | | N | | | |
| 80 | Labor | Inst | Installation based on Prevailing Wage Rates | \$67.00 | \$5,360.00 |
| | | | Grand To | otal: \$ | 311,932.00 |

Normal Hours are 8:00am - 5:00pm M-F.

Building Permits, Licenses or Fees will be the responsibility of the owner.

If you should have any questions, please call.

Michael Bryant

Rev. 09/08

State of West Virginia VENDOR PREFERENCE CERTIFICATE

Certification and application* is hereby made for Preference in accordance with **West Virginia Code**, §5A-3-37. (Does not apply to construction contracts). **West Virginia Code**, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the **West Virginia Code**. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

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|-----------------------|--|
| 1. | Application is made for 2.5% resident vendor preference for the reason checked: Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preced- |
| V | ing the date of this certification; or, Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years Immediately preceding the date of this certification; or of principal place of business continuously in West Virginia for four (4) years immediately maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or, |
| | and which has maintained its headquarters or principal place of dust less walls veet and an additional state of this certification; or, |
| <u>~</u> | Application is made for 2.5% resident vendor preference for the reason checked: Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or, |
| 3. | Application is made for 2.5% resident vendor preference for the reason checked: Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or, |
| 4. | Application is made for 5% resident vendor preference for the reason checked: Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or, |
| 5. | Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or. |
| 6. | Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years. |
| require | r understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the ements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty st such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency to the form any unnaid halance on the contract or purchase order. |
| author the re | bmission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and bmission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and rizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid rizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid rized business taxes, provided that such information does not contain the amounts of taxes paid nor any other information ed by the Tax Commissioner to be confidential. |
| Unde and a chan | r penalty of law for false swearing (West Virginia Code, §61-5-3), Bidder hereby certifies that this certificate is true accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate ges during the term of the contract, Bidder will notify the Purchasing Division in writing immediately. |
| Bidde | or: Newtech Systems Inc. signed: // /ke /Som |
| Date: | 5-4-2011 Titte: VP/GenMgr |
| *Checl | k any combination of preference consideration(s) indicated above, which you are entitled to receive. |

RFQ No. DJS 010296

STATE OF WEST VIRGINIA Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

DEFINITIONS:

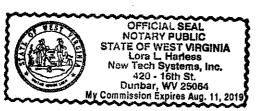
"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law, or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (West Virginia Code §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

| WITNESS THE FOLLOWING SIGNATURE |
|---|
| Vendor's Name: Newtech Systems INC |
| Authorized Signature: M/10 14 / Bound Date: MAy 4, 2011 |
| State of WV |
| County of Kanawha, to-wit: |
| Taken, subscribed, and sworn to before me this Hay of May |
| My Commission expires 8/1/ 20/9 |
| AFFIX SEAL HERE NOTARY PUBLIC LOTA L Harless |





PO Box 310 **a** 420 16th ST Dunbar, WV 25064 Office: 304-766-0000

Fax: 304-766-0003

RFQ DJS010296

Division of Juvenile Services

Video Surveillance Systems



420 16th Street Dunbar, WV 25064 office: 304-766-0000 fax: 304-766-0003

www.newtechwv.com

To: Division of Juvenile Services

Attn:

Various Locations

Quote:

MVOTQ1485

Date: Terms:

05/04/11 Net 45

Sales Tax:

Expires:

Not Included

FOB:

Included 60 Days

Phone:

Project:

Fax:

Thank you for the opportunity to provide the following proposal based on RFQ DJS010296.

Prices include shipping to site.

Price does not include state Sales Tax or Locale B&O.

| Qty | Manufacturer | Part Number | Description | Unit | Extended |
|-----|---------------------------------------|-----------------|---|-------------|-------------|
| 19 | AD | ADHD160100 | Hybrid Digital Video Recorder 16CH Analog/8IP 1TB | \$5,250.00 | \$99,750.00 |
| 3 | AD | ADHD320200 | Hybrid Digital Video Recorder 32CH Analog/8IP 2TB | \$7,330.00 | \$21,990.00 |
| 4 | AD | ADHD320200X2 | Hybrid Digital Video Recorder 64CH Analog/16IP 4TB (Qty 2 ADHD320200) | \$14,660.00 | \$58,640.00 |
| 12 | AD | AMP48-E | Matrix MegaPower 48 Plus 48x16 with Rack Kit | \$3,073.00 | \$36,876.00 |
| 12 | AD | AD2089 | Keyboard | \$1,084.00 | \$13,008.00 |
| 12 | AD | DMV96Q-1 | Multiplexer Duplex 16ch Color | \$895.00 | \$10,740.00 |
| 8 | Oriontech | VZ-26RTC | 26 Inch LCD Monitor | \$946.00 | \$7,568.00 |
| 8 | Oriontech | VZ32RTC | 32 Inch LCD Monitor | \$1,062.00 | \$8,496.00 |
| 8 | Oriontech | VZ-42RTH | 42 Inch LCD Monitor | \$1,775.00 | \$14,200.00 |
| 12 | Oriontech | VZ-VM50 | Tilt Wall Mount for up to 130lbs | \$67.00 | \$804.00 |
| 5 | Pelco | LB3000 | Lock Box, wall mount security box | \$548.00 | \$2,740.00 |
| 5 | Altronix | ALTV2416300UL | 24 OR 28 WALL MNT 16 OUT UL PS | \$165.00 | \$825.00 |
| 5 | Altronix | ALTV2432600UL | ALTV2432600UL 24 OR 28V 32 OUT | \$243.00 | \$1,215.00 |
| 5 | AD | ADCDEH0309TN | Discover Mini Dome, Vandal, 540TVL, 3-9mm Al | \$180.00 | \$900.00 |
| 5 | AD | ADCBW0309TU | DiscoverMini Dome Vandal WDR 3-9mm Al | \$339.00 | \$1,695.00 |
| 5 | AD | ADCDEH0309TN | Discover Mini Dome, Vandal, 540TVL, 3-9mm Al | \$180.00 | \$900.00 |
| 5 | Avigilon | 1.0MP-HD-H264-D | 1.0 Megapixel (720p) Day/Night Indoor Dome, 3-9mm f/1.2 | \$464.00 | \$2,320.00 |
| | J | 1 | lens | | |
| 5 | AD | ADCDEH0309TN | Discover Mini Dome, Vandal, 540TVL, 3-9mm Al | \$180.00 | \$900.00 |
| 5 | AD | ADCD601-B0001 | Discover 600 Bullet IR Camera 3-9mm Al with Altronix VR1T | \$148.00 | \$740.00 |
| 5 | AD | ADCBW0309TU | DiscoverMini Dome Vandal WDR 3-9mm Al | \$339.00 | \$1,695.00 |
| 5 | AD | CPAKWSHR2-12N | I Camera and Lens | \$259.00 | \$1,295.00 |
| 5 | AD | ADSDU822OPCW | PTZ 22x Dome Camera Kit | \$1,787.00 | \$8,935.00 |
| · | | N | | | |
| 5 | AD | ADSDU835OPCW | PTZ 35x Dome Camera Kit | \$2,068.00 | \$10,340.00 |
| • | • • | N | | | |
| 80 | Labor | Inst | Installation based on Prevailing Wage Rates | \$67.00 | \$5,360.00 |
| | · · · · · · · · · · · · · · · · · · · | | Grand To | otal: \$ | 311,932.00 |

Normal Hours are 8:00am - 5:00pm M-F.

Building Permits, Licenses or Fees will be the responsibility of the owner.

If you should have any questions, please call.

Sincerely.

Michael Bryant

A Tyco International Company



HDVR

Hybrid Digital Video Recorder

Features that make a difference:

- Manage analog and IP cameras from an intuitive interface
- Two flexible configurations available: 16 analog/8 iP cameras; 32 analog/8 iP cameras
- Each server is expandable to 64 IP cameras
- Supports H.264 and MJPEG on analog cameras; H.264, MPEG4, MJPEG on IP cameras
- Unique removable BNC panel improves serviceability
- 2U and 4U rack-mountable servers
- Supports a wide variety of IP cameras including multi-megapixel
- Easily and cost-effectively add IP camera licenses
- Common client allows you to connect to an unlimited number of HDVR servers
- Use multi-monitor and wide-screen client display for easy viewing
- Easy-to-use, powerful video and audio export features
- Easy-to-use multi-camera view playback and export
- User –definable permissions and privileges
- Access video with most web browsers and mobile devices
- Easily analyze search results with configurable color-coding
- RAID 5 storage

HDVR (Hybrid Digital Video Recorder) from American Dynamics protects your analog camera investment while you consider either transitioning to IP cameras, or enjoy the benefits of a mixed environment. The HDVR provides seamless integration and recording of both analog and IP video surveillance cameras on an enterprise class chassis.

The powerful, yet easy to operate client user interface installs on any standard computer running Microsoft Windows XP or Vista and can connect to multiple servers. Video from all HDVR systems can also be accessed with web browsers and mobile devices with access to the Internet.

Each HDVR server supports 16 or 32 analog inputs and 8 IP inputs, which can be easily expanded to 64 IP cameras per server. The unique hardware platform supports H.264 and MJPEG compression technology on all analog channels; H.264, MJPEG, and MPEG-4 on IP channels. A RAID 5 model provides redundant storage capabilities.

HDVR features a removable BNC panel, making it extremely easy to perform maintenance on the server without disrupting service; you simply replace the front of the unit while keeping all the BNCs intact.

A Tyco International Company

General

| Video Standard: | 352 x 240 – CIF@30 ips |
|---------------------------------------|------------------------|
| Compression | |
| Analog Cameras | H.264 / MJPEG |
| IP Cameras | H.264/MPEG-4/MJPEG |
| Audio Output | |
| Network Interface | |
| USB2 Ports | 6 (2 front, 4 rear) |
| VGA/DVI Monitor Output | |
| Operating System | |
| RAID5 Storage | |
| · · · · · · · · · · · · · · · · · · · | • |

Environmental

| Operating Temperature | 0° to 35°C (32° to 95°F) |
|-----------------------|-------------------------------|
| Relative Humidity | 10% to 85% RH (noncondensing) |
| Storage Conditions | 40° to 70°C (-40° to 158°F) |

Regulatory

Emissions FCC Part 15 Class A EN55022:2006 EN61000-3 2:2006 EN61000-3-3:1995 + A1:2001 + A2 :2005 EN50130-4:1995 + A1:1998 + A2:2003 Safety UL 60950-1 EN 60950-1: 2001+A11

Hardware

| | 2U 16-channel | 4U 32-channel |
|-----------------------------|-------------------------|--------------------------|
| Dimensions | 48.26 x 8.89 x 57.79 cm | 48.26 x 17.78 x 57.79 cm |
| WxHxD | (19 x 3.5 x 22.75 in) | (19 x 7.0 x 22.75 in) |
| Weight | 12.25 - 14.51 kg | 20.87 – 25.40 kg |
| • | (27-32 lbs) | (46-56 lbs) |
| Analog Video Inputs | 16 | 32 |
| Looping Video Outputs | 16 | 32 |
| Analog Video Outputs | 1 | 2 |
| Audio Inputs | 16 | 32 |
| Alarm Inputs | 16 | 32 |
| Alarm Outputs | 8 | 16 |
| Relay Outputs | 1 | 2 |
| Serial Connections | RS232, RS422/RS485 | RS232, RS422/RS485 |
| Power | 120/240 VAC / 300W | 120/240 VAC / 400W |

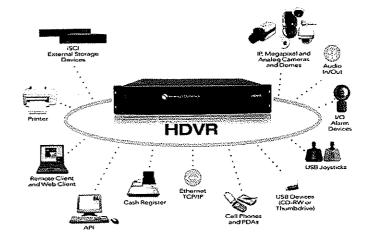
Minimum Specifications for Client Workstation

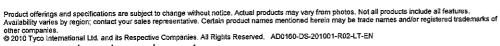
| Operating System | Microsoft Windows XP or Vista |
|-----------------------------|-----------------------------------|
| Processor | 2 GHz Celeron |
| Memory | |
| VGA | Standard high performance |
| Web Browser Compatibility | Internet Explorer, Firefox, Apple |
| | Safari, Opera, Google Chrome |
| Mobile Device Compatibility | iPhone, iPod Touch, BlackBerry, |
| | Windows Mobile OS |

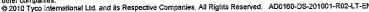
Model Numbers

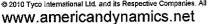
| Model ladingers |
|--|
| ADHD160100 HDVR, 2U, 16 ch. analog/ 8IP, 1TB |
| ADHD160200 HDVR, 2U, 16 ch. analog/ 8IP, 2TB |
| ADHD160300 HDVR, 2U, 16 ch. analog/ 8IP, 3TB |
| ADHD160400 HDVR, 2U, 16 ch. analog/ 8IP, 4TB |
| ADHD16R300HDVR, 2U, 16 ch. analog/ 8IP, 3TB, RAID5 |
| ADHD320200 HDVR, 4U, 32 ch. analog/ 8IP, 2TB |
| ADHD320400 HDVR, 4U, 32 ch. analog/ 8IP, 4TB |
| ADHD320600 HDVR, 4U, 32 ch. analog/ 8IP, 6TB |
| ADHD320800 HDVR, 4U, 32 ch. analog/ 8iP, 8TB |
| ADHD32R600HDVR, 4U, 32 ch. analog/ 8IP, 6TB, RAID5 |
| ADSHIP01Single IP Camera License |
| ADSHSSAIP01Software Update Subscription for single IP Camera |
| ADSH16SSA Software Update Subscription for 16/8 HDVR |
| ADSH32SSA Software Update Subscription for 32/8 HDVR |
| |

System Diagram



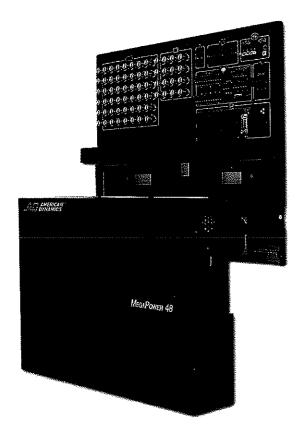












MegaPower 48 Plus

Matrix Switcher/Controller System

Features That Make a Difference:

- Universal MEU supports both NTSC and PAL
- 3 flexible exansion modes using a primary/secondary configuration of up to 7 systems and 288 cameras
- Ethernet Cat 5 IP connection for multi-matrix communications and system setup
- EASY 48 configuration and monitoring software for Windows® XP, 2000, 95/98 and NT® 4.0-based systems
- Dome ping test and status display
- RS-422 dome support, including simplex RS-422
- DirectSet function control menu for SensorNet or RS-422 domes with ControlCenter 200/300 DirectSet key or ADTTE, and AD2088, and AD2089 site keys
- 48 video inputs
- 16 video outputs, 8 with text overlay
- Optional Unshielded Twisted Pair (UTP) Adaptor Module allows installation with simple UTP cable for video
- Full embedded system menus for easy setup
- Recorder control
- User-defined macros
- 4096 preset titles and 250 alarm titles
- Dedicated alarm programming tables differentiate between alarm sources
- RS-232 inputs expandable to 32
- 64 system tours and 64 salvos

MegaPower 48 Plus is an IP-enabled matrix switcher/controller system that can operate as a standalone system or as part of a network. Choose from one of three expansion modes and grow your system by up to 288 inputs. Whether used as a centralized or distributed system, MegaPower 48 Plus can be cost-effectively installed and optimized for the most challenging of site requirements.

The new EASY 48 system configuration software is a user-friendly MS Windows application that permits the administrator to program MegaPower 48 Plus either on-site or remotely via Ethernet or RS-232. Use it to remotely check the system status of cameras and monitors via an Ethernet connection or to back up and restore system data.

The slim modular wall-mount design saves space and reduces cabling costs by letting you install MegaPower 48 Plus in the location that is most central to your cameras. Because it doesn't have to be rack mounted in a control room, MegaPower 48 Plus can be installed anywhere in your facility—even an electrical closet, or maximize the space and fit in more devices in your standard rack by installing it at 90° angle behind other equipment. You can also rack mount MegaPower 48 Plus at other angles to facilitate easy cable connections with the optional rack mount kit.

features

System Expansion

Systems are expanded with a primary-to-secondary relationship. There are three modes of expansion, using Ethernet for command and control. If inter-matrix communication is disrupted, all secondary units continue functioning locally and the primary provides status to users of the fault condition.

- Mode 0: Basic system, 48 video inputs, 16 full crosspoint video outputs.
- Mode 1: The primary unit has 16 video trunk lines from each of up to three secondary units, providing 16 full crosspoint video outputs with up to 144 video inputs.
- Mode 2: The primary unit has 12 video trunk lines from each of up to four secondary units, providing 12 full crosspoint video outputs with up to 192 video inputs. Each secondary has three local outputs with full crosspoint video switching of local cameras.
- Mode 3: The primary unit has eight video trunk lines from each of up to six secondary units, providing 8 full crosspoint video outputs with up to 288 video inputs. Each secondary has seven local outputs with full crosspoint video switching of local cameras.

Expansion Mode Chart

| | PRIM | MARY | | SECONDAR | Υ. | KEY BOARDS | | ALA | IIMS | |
|------|--------|---------|--------|----------------|------------------|---------------|----------------|------|---------------|-----------------|
| Mode | Inpuls | Outputs | Línits | Outputs Per | Total Oulputs | | Patch Panel | Dome | Video Loss | RS232 Alarms |
| 0 | 48 | 16 | 0 | N/A | N/A | 32 | 16 | 192 | 48 | 512 |
| | 80 | 16 | 1 | 0 | 0 | 64 | 32 | 320 | 80 | 512 |
| 1 | 112 | 16 | 2 | 0 | 0 | 96 | 48 | 448 | 112 | 512 |
| | 144 | 16 | 3 | 0 | 0 | 128 | 64 | 576 | 144 | 512 |
| 1 | 84 | 12 | 1 | - 3 | 3 | 64 | 32 | 336 | 84 | 512 |
| | 120 | 12 | • 2 | 3 | 6 | 96 | 48 | 480 | 120 | 512 |
| 2 | 156 | 12 | 3 | 3 | .9 | 128 | 64 | 624 | 156 | 512 |
| 4.7 | 192 | 12 | 4 | 3 | 12 | 160 | 80 | 768 | 192 | 512 |
| | 88 | 8 | 1 | 7 | 7 | 64 | 32 | 352 | 88 | 512 |
| | 128 | 8 | 2 | 7 | 14 | 96 | 48 | 512 | 128 | 512 |
| | 168 | 8 | 3 | 7 | 21 | 128 | 64 | 672 | 168 | 512 |
| 3 | 208 | 8 | 4 | 7 | 28 | 160 | 80 | 832 | 208 | 512 |
| | 248 | 8 | 5 | 7 | 35 | 192 | 96 | 992 | 248 | 512 |
| | 288 | 8 | 6 | 7 | 42 | 224 | 112 | 1152 | 2888 | 512 |

Camera Site Control

Users can control domes, pan/tilts, motorized lenses, auxiliary outputs, presets and patterns at suitably-equipped camera sites via SensorNet, RS-422 and Manchester outputs. To better support legacy SpeedDomes and installations that use simplex RS-422 communication, the system allows presets to be stored in the dome.

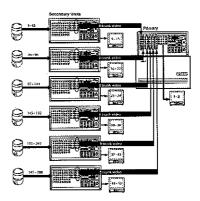
System Programming

On-screen menus enable you to program system features from any full-system keyboard. Operators can use the monitors with text overlay to program the system. In addition, the EASY 48 system configuration software enables you to custom-configure using computers running Windows XP, 2000, 95/98 or NT 4.0. This software package provides simplified setup, archiving and retrieval of setup as well as the ability to load and retrieve that data via Ethernet or RS-232.

RS-232 Communications

Eight direct ports allow standard communication with keyboards, alarm interface units, recorder control devices, computers, third party devices, modems (for text message paging), and more. Each port can expand to four ports with an optional port expander.

Mode 3 Example



Selectable On-Screen Text

Each of the first eight monitors can display the date/time, video input number, 16-character user-definable video input or preset title, alarm title, monitor status, and secondary status.

Macro Control

The system's powerful macros allow each operator to customize their own ControlCenter 1100 or AD2088/AD2089 workstations to perform a multitude of tasks via simple, intuitive, easy-to-remember keystrokes.

Recorder Control

Users can control all of the standard recorder functions directly from any suitably-equipped keyboard – play, stop, pause, record, rewind, fast forward, and eject.

Pseudo Camera Numbers

Users can assign a four digit number to replace the default video input number for each video input, making it easier to identify cameras in multiple level buildings and similar situations.

System and Monitor Tours

A tour is a sequence of video inputs with each input featuring an individual dwell time, a preset/pattern and an auxiliary action. Tours can run forward or in reverse. Video partitioned from a monitor is skipped.

Event Timers

There are 35 user-programmable times available. These times may be independently designated for multiple days of the week to automatically call up system tours to video outputs. Event timers also enable you to activate and deactivate alarm contacts based on the time of day.

Salvo Switching

Salvo switching allows multiple video inputs to be called simultaneously to multiple contiguous video outputs. Sixty-four individual groups (salvos) consisting of up to 16 video inputs (each with a preset, pattern and/or auxiliary action) can be called either manually or as part of a system tour.

Automatic Alarm Callup

Alarm inputs can be programmed to call any video input or salvo to any one or more video outputs. For each alarm input, users can define a camera, preset, pattern, wireless text message, salvo, alarm message and/or auxiliary action (with individual dwell time for each to accommodate sequencing alarms). In addition, two local patch panel relays can be triggered upon any alarm event. Any combination of 25 alarm display/clearance methods may be selected independently for each video output. Alarms can hold or sequence on outputs. Blocks of monitors can be defined; normal, automatic and instant clearing are supported.

Internal Video Loss Detection

Video loss detection is standard on all video inputs. Upon video loss, a system alarm is generated. Enabling video loss detection occupies video output 16.

Text Message Paging on Alarm

MegaPower 48 Plus can transmit text messages to cellular phones and pagers when an alarm occurs, alerting users with a detailed description of the event and instructions for how to respond. With alarm programming, a single event can trigger multiple unique messages to one or more recipients. You can program as many as 64 different pager profiles and define up to 250 unique text messages for transmitting. The paging feature supports the TAP protocol via an external modem (not supplied).

Status Output

System status output via an RS-232 printer port may be programmed to output both the occurrence and clearing of all alarms as well as power status and monitor messages.

System Partitioning

System flexibility is further enhanced by defining authorized access to keyboards, video inputs and video outputs. System partitioning includes:

- Keyboard-to-Monitor Access: Restricts selected keyboards from accessing selected video outputs.
- Monitor-to-Camera Access: Restricts selected video outputs from displaying selected video inputs.
- Keyboard-to-Camera Access: Restricts selected keyboards from calling or controlling selected video inputs.
- Keyboard-to-Camera Control Access: Allows selected keyboards to access views from certain cameras but restricts those keyboards from controlling the cameras.

Password and Priority Operation

Keyboards or users can be assigned one of eight priority levels for controlling remote camera sites. Up to 64 user codes, each with a unique password, can be assigned to operators. Access to certain system features may be restricted depending on a user's priority level.

Diagnostics and Dome Information Screens

Built-in diagnostics clearly indicate power status and system health, allowing you to determine the status of the system's internal components. The dome information screen shows the video detection status, dome mnemonic, dome protocol, dome software version and whether the dome is responding to the system polls for each camera on the system. For troubleshooting purposes, the dome ping test screen allows the installer to verify the integrity of SensorNet and RS-422 communications and display dome firmware number, mnemonic, serial number and production date.

Flash Memory Module for Data Backup

The system is comprised of a passive patch panel for all system wiring and a removable main electronics unit (MEU). There is also a flash memory module that is separate from the MEU and lets you automatically back up data without a PC. This allows you to replace a system and restore the existing data in less than one minute.

Digital Video Management System Control

The AD2089 keyboard allows you to control Intellex digital video management systems including playback of archived video. This feature requires Intellex and Network Client v4.04.



SPECIFICATIONS

Model Numbers

Each MegaPower 48 Plus system consists of a wall-mount assembly (bracket and patch panel assembly), main electronics unit (Universal, NTSC or PAL), pre-wired transformer assembly (selectable voltage), and documentation kit including CD with various languages.

ADMP48-E..... MegaPower 48 Plus, Universal

Optional Accessories

Keyboards

ADCC1100 - MegaPower 1100 keyboard

with smart card and macro keys

ADTTE - Touch Tracker keyboard

ADCG0200P - ControlCenter 200 keyboard

with 2-axis joystick

ADCC0300P - ControlCenter 300 keyboard

with joystick and programming access

AD2089 - Full system keyboard

with macro keys and video recorder control (DVR or VCR)

Other Accessories

AD2081, AD2081-1 Port Expander

Expands one RS-232 port on a system into four ports, providing connections to multiple system keyboards.

AD2096A, AD2096-1 Alarm Interface

Monitors up to 64 alarm inputs and provides RS-232 ASCII alarm commands to the system. Up to eight units can be cascaded on a RS-232 line.

AD2031, AD2031-1 Switcher Follower

Activates relays when designated video inputs are called to designated video outputs. It interfaces via Manchester and provides up to 32 Form A relays that can be grouped in series and addressed to a single video output or in two groups of 16 relays for two specific video outputs.

AD2032, AD2032-1 Alarm Responder

Activates relays when associated video outputs are in an alarmed condition. Interfaces via Manchester and provides up to 32 Form A relays.

AD2033, AD2033-1 Auxiliary Follower

Activates relays when a specific auxiliary is triggered either manually or automatically for an associated video input. Interfaces with matrix switcher/controllers and provides up to 32 Form A relays via Manchester. Multiple units can be cascaded together.

VR48RKIT Rack Mount Kit

This enables the MegaPower 48 Plus system to be rack mounted in a standard 19-inch EIA rack mount.

ADACTP01BNC · Unshielded Twisted Pair Adaptor Module

This allows installation with simple UTP cable for video lines.

VRCMKIT Cable Brackets

Each kit contains three additional cable management brackets.

Operational

Return Loss

Input/Output 40 dB

DC Level (Video Signal) 0 Volts (± 0.1 V typical)

EIA RS-170 and NTSC, CCIR and PAL

Switching Speed Less than 20 ms (typical)

Outputs 1-8 Input or preset title (16 characters), monitor status, alarm title (48 characters)

Character Set.................English, French, Italian, German, Spanish,

Portuguese

RS-232 Eight 8-pin RJ-45 optional port expander

extends each port to four

Network..... Ethernet, IEEE 802.3, 10 Mbps, TCP/IP

Utilization < 2.5%

connection

External Modem ... One DB9 connector (Hayes AT compatible)
SensorNet Six ports through terminal screw connectors
SEC RS-422 Six ports through terminal screw connectors
Manchester One port through terminal screw connectors

screw connectors

Power. One 3-pin terminal screw connector

Flash Memory Module.....One 8-pin header

Electrica

Power Source 12 VDC external power supply, universal

Supply Voltage......100-240 VAC, 50-60 Hz

Power Requirements 5 amps, 42 VA

Mechanical

Mounting Vertical wall or 19-inch EIA rack mount Dimensions (H x W x D) $50.8 \times 43.8 \times 8.9$ cm (20 x 17.3 x 3.5 in)

Unit Weight

 Wall Bracket.
 1.54 kg (3.4 lbs)

 Patch Panel Assembly
 1.72 kg (3.8 lbs)

 Main Electronics Unit
 2.72 kg (6.0 lbs)

 Total Weight
 5.97 kg (13.2 lbs)

 Transformer Weight
 2.17 kg (4.8 lbs)

Environmental

Regulatory

 Emissions
 FCC Part 15, Class A EN55022 (CE)

 Immunity
 EN50130-4 (CE)

 Safety
 UL1950

CSA 22.2, No. 950 (cUL) EN60950 (CE)

EASY 48

PC Recommendation Windows XP, 2000, NT 4.0 or 95/98

800 MHz Processor 1 GB hard disk space 256 MB RAM



Product offerings and specifications are subject to change without notice. Actual products may vary from photos. Not all products include all features. Availability varies by region; contact your sales representative. Certain product names mentioned herein may be trade names and/or registered trademarks of other companies.

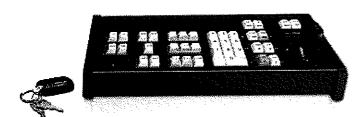




Full-Function CCTV System Keyboard

Features That Make a Difference:

- Variable-speed, vector solving, twist-to-zoom joystick for pan/tilt/zoom control
- Camera, monitor, DVR, VCR and satellite site selection
- 1000 user-defined macros
- Eight customizable macro keys
- DVR control
- LED display with brightness control
- Tactile full-travel keys
- Preset, pattern and auxiliary control
- Joystick push-button for dome flip function
- Lens control
- Tour and salvo control
- Alarm control
- Supports American Dynamics Intellex[®] digital video management systems



The AD2089 series includes robust, full-function CCTV system keyboards available in desktop and rack mount versions and are compatible with MegaPower™ Matrix Switcher/Controller Systems and Intellex Digital Video Management Systems.

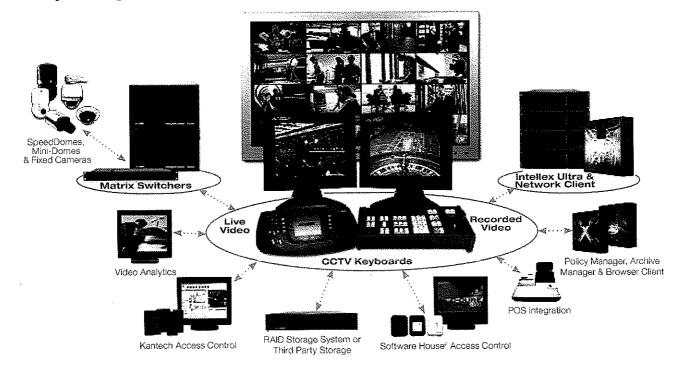
The keyboards feature full-travel keys that provide true tactile feel. Dedicated keys enable user log-on, intuitive site and monitor/DVR/VCR selection, and camera or salvo call-up. All system activities, including tours and alarms, can be controlled directly from the keyboard. AD2089 keyboards provide user-defined macro keys that make even the most complex and demanding installations easy to manage. Each operator can customize his or her own keyboard to perform a multitude of system tasks via simple, easy to remember keystrokes.

The keyboard also offers recorder control for digital video recorders. The keyboard's vector-solving joystick provides one-handed control of the selected variable-speed pan/tilt or programmable dome. The joystick's twist action feature provides zoom control of motorized lenses. The push-button at the top of the joystick enables users to quickly flip a compatible dome 180° for uninterrupted surveillance of subjects who pass directly underneath the dome.

The keyboard's internal beeper sounds for five seconds upon receipt of an alarm. It has adjustable baud rates to properly match the keyboard to the network and matrix switcher/controller system, and a self-test mode to verify both hardware and software operation of the communications port, LEDs, joystick, beeper, and memory.



Basic System Diagram



Model Numbers

| AD2089 | , 120 VAC, 50/60 Hz Desktop |
|------------------------|--------------------------------------|
| AD2089R | 120 VAC, 50/60 Hz Rack mount |
| AD2089-1 | 230 VAC, 50/60 Hz Desktop |
| AD2089R-1 | 230 VAC, 50/60 Hz Rack mount |
| Note: AC wall-type tra | nsformer and terminal block supplied |
| (9 VAC for 120 V, 8 V) | AC for 230 V). |

Connectors

Electrical

Supply Voltage AD2089-1 Series 230 VAC, 50/60 Hz Power Consumption......5.0 watts (nominal)

Non-Volatile Memory User-defined programming stored in

EEROM indefinitely

Mechanical

Dimensions (H x W x D) (3.0 x 16.5 x 5.25 in) (5.25 x 19 x 1.5 in)

Environmental

Operating Temperature0° to 40°C (32° to 104°F)

Regulatory

CE: EN55022 Class B

Safety......UL2044

CSA 22.2 No. 1 (cUL)

CE: EN60950

Product offerings and specifications are subject to change without notice. Actual products may vary from photos. Not all products include all features. Availability varies by region; contact your sales representative. Certain product names mentioned herein may be trade names and/or registered trademarks of other companies.

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The Multivision Quest Duplex series offers advanced features not typically found in standard multiplexers. The duplex capability allows users to view live or recorded video while also recording at the same time. Video inputs can be programmed as covert so that certain cameras are recorded but not viewable on the monitors.

Three types of alarm events are supported: video loss, alarm inputs via the rear panel, and motion detection. Motion detection for each individual camera is programmed via a detection grid. Each alarm event can be programmed to put the multiplexer into alarm mode, which can result in onscreen alarm text, an internal buzzer sounding, and a relay being triggered. Triggered alarm inputs can be programmed to increase the camera record rate. Alarm dwell time is user selectable from 1 to 9,999 seconds. In addition, as these events occur they are stored in a non-volatile event history log. The most recent 255 events are kept in the list.

For installations where cameras are located at long distances and video signal integrity is affected, the gain control for each individual camera can be adjusted to restore picture quality.

The multiplexer has two passwords: one for resetting the unit to factory settings, one for configuring the unit during installation.

FEATURES

- 4,9 and 16-channel versions
- B/W and color models
- 720 x 480 (NTSC) / 720 x 576 (PAL) pixel display with 256 grays and 16 million colors
- Covert camera programming
- Intelligent video motion detection
- History log for up to 255 alarms, video loss or motion detection events

- User-friendly on-screen menus
- Two levels of password protection
- Adjustable gain control for each camera
- Ability to freeze live and recorded images
- Up to three pre-programmed main monitor sequential switching modes

SPECIFICATIONS

Model Numbers

| DMV14Q Duplex, 4 channel, B/W multiplexer. 120VAC, NTSC |
|---|
| DMV19Q Duplex, 9 channel, B/W multiplexer. 120VAC, NTSC |
| DMV16Q Duplex, 16 channel, B/W multiplexer. 120VAC. NTSC |
| DMV94Q Duplex, 4 channel, color multiplexer. 120VAC, NTSC |
| DMV99Q Duplex, 9 channel, color multiplexer, 120VAC, NTSC |
| DMV96Q Duplex, 16 channel, color multiplexer. 120VAC, NTSC |
| DMV14Q-1 Duplex, 4 channel, B/W multiplexer, 230VAC, PAL |
| DMV19Q-1 Duplex, 9 channel, B/W multiplexer. 230VAC, PAL |
| DMV16Q-1 Duplex, 16 channel, B/W multiplexer, 230VAC, PAL |
| DMV94Q-1 Duplex, 4 channel, color multiplexer. 230VAC, PAL |
| DMV99Q-1 Duplex, 9 channel, color multiplexer. 230VAC, PAL |
| DMV96Q-1 Duplex, 16 channel, color multiplexer. 230VAC, PAL |

Accessories

MQRPNL Remote Panel, 60/50Hz

Operational

| - |
|---|
| Video Inputs |
| Video Resolution |
| 720 x 576 display (PAL) |
| Display Formats |
| 1, 4, 9, and 16 windows (16 Channel) |
| Gain Control 1 to 16 (70 to 150%) |
| Motion Detection Grid 192 points, 16 horizontal x 12 vertical |
| Motion Detection Settings Adjustable sensitivity |
| Event History Log 255 alarm contact, video loss or motion |
| detection events |
| Alarm Duration Programmable 1 to 9,999 seconds |
| |

Video Inputs/Outputs

| Video Inputs |
|---|
| 1Vp-p, selectable 75 Ω or High-Z, BNC |
| VCR Input Composite, 1Vp-p, 75 Ω, BNC |
| S-Video, 1Vp-p, 75 Ω, 4-pin mini-DIN |
| VCR Output Composite, 1Vp-p, 75 Ω, BNC |
| S-Video, 1Vp-p, 75 Ω, 4-pin mini-DIN |
| Main Monitor Output Composite, 1Vp-p, 75 Ω, BNC |
| S-Video, 1Vp-p, 75 Ω, 4-pin mini-DIN |
| Call Monitor Output Composite, 1Vp-p, 75 Ω, BNC |

Connectors

| Alarm Input | 16, one per camera, programmable as |
|----------------------------|--------------------------------------|
| norma | lly open or normally closed |
| Common Alarm Output One no | ormally open or closed form C relay, |
| 0.5A/1 | 20VAC or 2.0A/24VDC |
| VCR Trigger One, T | |
| Set Alarm One, c | ontact closure or TTL/CMOS input |
| Reset AlarmOne, c | ontact closure or TTL/CMOS input |
| RS-485 Two, F | J-11 ports |
| Remote Panel One, R | J-45 port |

Electrical

| Input Voltage | Regulated, 12VDC ± 10% |
|---------------|---|
| Power | 16 Watts |
| Power Supply | 12VDC \pm 10%, 2 A, 2.1 mm pin-jack, positive |
| | center conductor |

Mechanical

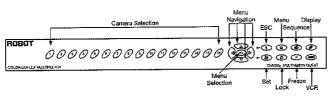
| Dimensions (H x W x D) 44 x 432 x 270 mm |
|--|
| $(1.7 \times 17.0 \times 10.6 \text{ in.})$ |
| Unit Weight |
| Shipping Weight 5.0 kg (11.0 lbs) |
| Color Black |
| Rack Mounting Kit Two L-shaped brackets 1U rack height |
| (included) |

Environmental

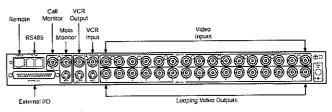
| Operating Temperature 5° to 40°C (41° to 104°F) |
|---|
| Storage Temperature20° to 70°C (-4° to 158°F) |
| Hamidity |

Regulatory

| Emissions | . FCC Part 15, Subpart B, Class A |
|-----------|-----------------------------------|
| | EN55022, 1998 Class A |
| Immunity | .EN50082-1 1997 |
| • | CISPR 22: 1997, Class A |
| Safety | . UL and CUL 1950 |
| • | EN60950 |



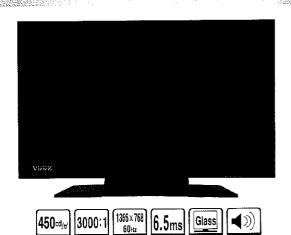
Front Panel



Rear Panel

VZ-26R1

PREMIUM LCD CCTV MONITOR



| MODEL# | VZ-26RTC |
|---------------------------------------|--|
| DISP | 26" |
| Screen Size | 1907/99000000000000000000000000000000000 |
| Max. Resolution | 1366 x 768 @60Hz |
| Pixel Pitch | 0.412mm x0.412mm |
| Brightness | 450cd/m²(Typical) |
| Contrast Ratio | 3000:1 |
| Aspect Ratio | 16:9 |
| Viewing Angle (H/V) | 178°/178° |
| Display Color | 16.7 Million |
| Response Time | <6.5ms |
| Video System | NTSC / PAL |
| requency (H) | 31~64Khz |
| Frequency (V) | 56~75Hz |
| INTER | 200 |
| AV(Composite) In/ Out | 2/2 |
| S-Video In / Out | 1/1 |
| RGB in(15Pin D-Sub) | 1 |
| Component(Y, Pb, Pr, Sound L/R) in | 1 |
| DVI-In | 1 |
| HDM1 In | 1 |
| Trigger In | 1 |
| AV(Composite) Sound In/Out (RCA Type) | 2/2 |
| PC Stereo In/Out | 1/1 |
| | alQ 2Wx2 |
| Built in speaker | BATURES |
| Multi Display Function | PIP / PBP / VOV |
| | 3D Comb filter / DeInterlace |
| Filter Type LCD Protection Glass | YES YES |
| Trigger Sensor / Image Rotation | YES / YES |
| Video Resolution(Max) | 600 TV Line |
| Camera Mounting Hole | Not Available |
| | English, Spanish, French, German, |
| Multi-lingual Language | Italian, Portuguese, Dutch |
| 1949-197 | (SIONS |
| Outline Dimension | T 25.99" x16.23" x3.83" |
| (WxHxD) | (660,2mm x412,2mm x93,3mm) |
| Net Weight | 44.10 lbs (20.0kg) |
| | UNI |
| VESA | The state of the s |
| | EBAL |
| Transmitter - IR Remote Control | YES |
| Power - Electrical Ratings | AC100 ~ 240V(50/60Hz) |
| - Consumption | 120W |
| Market Cousambach | 14000 |

Warranty - Parts/ Labor

Compatible Mounts - WALL

Regulations

- MTBF (Approx.) **Jperating Temperature**

- CEILING

- Rack

3 Year / 3 Year

50,000 Hours

TUV-NRTL (=UL), CB, FCC(B), CE-Emc(LVD)

VZ-WM31, VZ-WM40, VZ-WM50

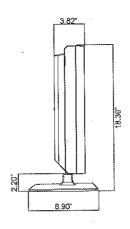
VZ-CMK07

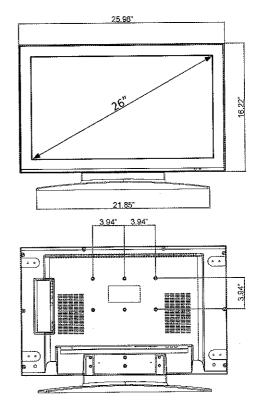
Not Available

32-104°F/0-40°C

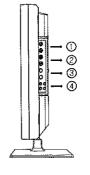
VZ-26RTC ADVANTAGES:

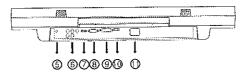
- 26" LCD CCTV Monitor
- BNC, VGA, HDMI, DVI
- 3D Comb-filter, De-interlace, Built-in Speakers
- 3-Year Warranty
- Image Rotation Feature Pervents "Burn-In"





INTERFACE





- 1. AV(composite)1 IN/OUT
- 2. AV(composite)2 IN/OUT
- 3, S-VIDEO IN/OUT
- 4. AV(composite) SOUND IN/OUT 10. HDMI
- 5. TRIGGER IN COMPONENT
- 7. PC STEREO IN/OUT 8, VGA
- 9. DVI
- 11. AC110V IN

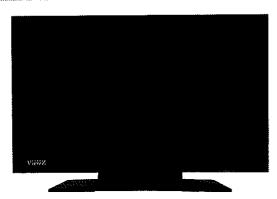
Contact ViewZ

- Address: 1220 N.Kraemer Blvd, Anaheim, CA, 92806
- Phone: (714)630-3380, Fax: (714)630-2335
- Sales: sales@viewzusa.com



VZ-32RTC

PREMIUM LCD CCTV MONITOR



| 500cd/a | 3000:1 |
|-----------------|-------------------|
| High Brightness | Hgli Cardell Raid |





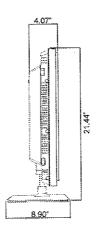


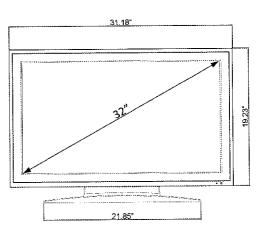


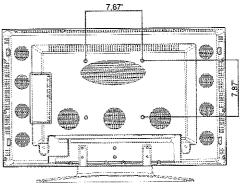
| High Brightness High Cresu Rate Resolution | Response Time Projecting Class Bulkin Speakers |
|--|---|
| MODEL# | VZ-32RTC |
| DESE | 32" |
| Screen Size | |
| Max. Resolution | 1366 x 768 @60Hz |
| Pixel Pitch | 0.510mm x0.510mm |
| Brightness | 500cd/m²(Typical) |
| Contrast Ratio | 3000:1 16:9 |
| Aspect Ratio | 10.5 178°/178° |
| Viewing Angle (H/V) | 16.7 Million |
| Display Color Response Time | <8ms |
| | NTSC / PAL |
| Video System requency (H) | 31 ~ 64Khz |
| - conservation of the contract | 56~75Hz |
| Frequency (V) | |
| AV(Composite) In/ Out | 2/2 |
| | 1/1 |
| S-Video In / Out RGB In(15Pin D-Sub) | 1 |
| Component(Y, Pb, Pr, Sound L/R) In | 1 |
| enamentalista eta eta eta eta eta eta eta eta eta e | 1 1 |
| DVI-In HDMI In | 1 |
| | 1 |
| Trigger In AV(Composite) Sound In/Out (RCA Type) | 2/2 |
| PC Stereo In/Out | 1/1 |
| | DIC 1/1 |
| Built in speaker | 2W x 2 |
| SPECIAL SPECIAL | FEATURES |
| Multi Display Function | PIP / PBP / VOV |
| Filter Type | 3D Comb filter / DeInterlace |
| LCD Protection Glass | YES |
| Trigger Sensor / Image Rotation | YES / YES |
| Video Resolution(Max) | 600 TV Line |
| Camera Mounting Hole | |
| | Not Available |
| A CONTRACTOR OF THE CONTRACTOR | |
| Multi-lingual Language | Not Available English, Spanish, French, German, Italian, Portuguese, Dutch |
| Multi-lingual Language | English, Spanish, French, German, Italian, Portuguese, Dutch |
| Multi-lingual Language | English, Spanish, French, German, |
| Multi-lingual Language Uniti- Outline Dimension | English, Spanish, French, German, Italian, Portuguese, Dutch |
| Multi-lingual Language | English, Spanish, French, German, Italian, Portuguese, Dutch SSICHS 31.18" x19.23" x4.07" |
| Multi-lingual Language Blavis Outline Dimension (WxHxD) Net Weight | English, Spanish, French, German, Italian, Portuguese, Dutch SSIC US 31.18" x 19.23" x 4.07" (792.0mm x 488.5mm x 103.5mm) |
| Multi-lingual Language Havis Outline Dimension (WxHxD) Net Weight | English, Spanish, French, German, Italian, Portuguese, Dutch SSIC SS 31.18" x 19.23" x 4.07" (792.0mm x 488.5mm x 103.5mm) 46.30 lbs (21.0kg) |
| Multi-lingual Language Untline Dimension (WxHxD) Net Weight VESA | English, Spanish, French, German, Italian, Portuguese, Dutch SSIGNS 31.18" x 19.23" x 4.07" (792.0mm x 488.5mm x 103.5mm) 46.30 lbs (21.0kg) |
| Multi-lingual Language Untline Dimension (WxHxD) Net Weight VESA | English, Spanish, French, German, Italian, Portuguese, Dutch SSONS 31.18" x19.23" x4.07" (792.0mm x488.5mm x103.5mm) 46.30 lbs (21.0kg) UK! 200mm x 200mm |
| Multi-lingual Language Outline Dimension (W x H x D) Net Weight VESA SIN Transmitter - IR Remote Control Power - Electrical Ratings | English, Spanish, French, German, Italian, Portuguese, Dutch SSENS 31.18" x19.23" x4.07" (792.0mm x488.5mm x103.5mm) 46.30 lbs (21.0kg) 1187 200mm x 200mm |
| Multi-lingual Language Outline Dimension (W x H x D) Net Weight VESA SIN Transmitter - IR Remote Control Power - Electrical Ratings | English, Spanish, French, German, Italian, Portuguese, Dutch \$1.18" x19.23" x4.07" (792.0mm x488.5mm x103.5mm) 46.30 lbs (21.0kg) 200mm x 200mm |
| Multi-lingual Language Outline Dimension (W x H x D) Net Weight VESA Transmitter - IR Remote Control Power - Electrical Ratings - Consumption Warranty - Parts/ Labor | English, Spanish, French, German, Italian, Portuguese, Dutch SIGNS 31.18" x19.23" x4.07" (792.0mm x488.5mm x103.5mm) 46.30 lbs (21.0kg) 200mm x 200mm YES AC100 ~240V(50/60Hz) |
| Multi-lingual Language Outline Dimension (W x H x D) Net Weight VESA Transmitter - IR Remote Control Power - Electrical Ratings - Consumption Warranty - Parts/ Labor | English, Spanish, French, German, Italian, Portuguese, Dutch \$1.18" x19.23" x4.07" (792.0mm x488.5mm x103.5mm), 46.30 lbs (21.0kg) 200mm x 200mm YES AC100 ~ 240V(50/60Hz) 120W |
| Multi-lingual Language Outline Dimension (W x H x D) Net Weight VESA SIN Transmitter - IR Remote Control Power - Electrical Ratings - Consumption | English, Spanish, French, German, Italian, Portuguese, Dutch \$10.85 \$1.18" x 19.23" x 4.07" (792.0mm x 488.5mm x 103.5mm) 46.30 lbs (21.0kg) 200mm x 200mm YES AC100 ~ 240V(50/60Hz) 120W 3 Year / 3 Year |
| Multi-lingual Language Outline Dimension (W x H x D) Net Weight VESA Transmitter - IR Remote Control Power - Electrical Ratings - Consumption Warranty - Parts/ Labor - MTBF (Approx.) | English, Spanish, French, German, Italian, Portuguese, Dutch \$\$1.18" x19.23" x4.07" (792.0mm x488.5mm x103.5mm) 46.30 lbs (21.0kg) UK! 200mm x 200mm 15/AL YES AC100 ~240V(50/60Hz) 120W 3 Year / 3 Year 50,000 Hours |
| Multi-lingual Language Outline Dimension (W x H x D) Net Weight VESA Transmitter - IR Remote Control Power - Electrical Ratings - Consumption Warranty - Parts/ Labor - MTBF (Approx.) Operating Temperature | English, Spanish, French, German, Italian, Portuguese, Dutch \$1.18" x19.23" x4.07" (792.0mm x488.5mm x103.5mm) 46.30 lbs (21.0kg) \$200mm x 200mm \$1.14" YES AC100 ~240V(50/60Hz) 120W 3 Year / 3 Year 50,000 Hours 32-104° F / 0-40° C |
| Multi-lingual Language Outline Dimension (WxHxD) Net Weight VESA Transmitter - IR Remote Control Power - Electrical Ratings - Consumption Warranty - Parts/ Labor - MTBF (Approx.) Operating Temperature Regulations | English, Spanish, French, German, Italian, Portuguese, Dutch \$1.18" x19.23" x4.07" (792.0mm x488.5mm x103.5mm)) 46.30 lbs (21.0kg) 200mm x 200mm YES AC100 ~ 240V(50/60Hz) 120W 3 Year / 3 Year 50,000 Hours 32 - 104° F / 0 - 40° C TUV-NRTL (=UL), CB, FCC(B), CE-Emc(LVD) |

VZ-32RTC ADVANTAGES:

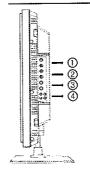
- 32" LCD CCTV Monitor
- BNC, VGA, HDMI, DVI
- 3D Comb-filter, De-interlace, Built-in Speakers
- 3-Year Warranty
- Image Rotation Feature Pervents "Burn-in"

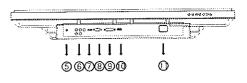






INTERFACE





- 1. AV(composite)1 IN/OUT
- 7. PC STEREO IN/OUT
- 2. AV(composite)2 IN/OUT 3, S-VIDEO IN/OUT
- 8, VGA 9. DVI
- 4. AV(composite) SOUND IN/OUT 10. HDMI
- 5, TRIGGER IN
 6. COMPONENT
- 11. AC110V IN

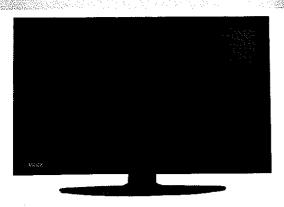
Contact ViewZ

- Address: 1220 N.Kraemer Blvd, Anaheim, CA, 92806
- Phone: (714)630-3380, Fax: (714)630-2335
- Sales: sales@viewzusa.com

ViewZ www.viewzusa.com

VZ-42RTH

PREMIUM HD LCD CCTV MONITOR



| 400 cd/m² | 4000:1 | 1920 × 1080 60Hz | 6.5ms | ◄ ≫) | FHD |
|------------------|---------------------|---------------------|--------------|-------------------|-------------|
| Flori Brightness | High Contrast Ratio | Resolution | ResponseTame | Built in Speakers | Fc&HD Panel |

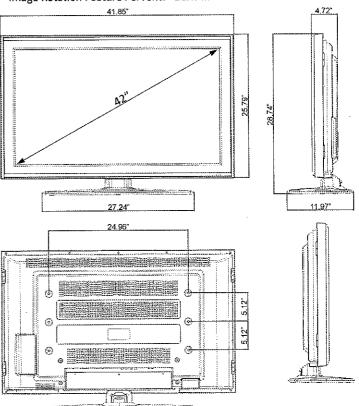
| 400 cd/m 4000: 7 60Hz | Co. 5 ms (Co. it a Speakers Fig. 1) Fig. 10 |
|--|---|
| MODEL# | VZ-42RTH |
| Dist | 2_AY 42" |
| Screen Size Max. Resolution | 1920 x1080 @60Hz |
| Pixel Pitch | 0.4845mm x0.4845mm |
| Brightness | 400cd/m²(Typical) |
| Contrast Ratio | 4000:1 |
| Aspect Ratio | 16:9 |
| Viewing Angle (H/V) | 178°/178° |
| Display Color | 16.7 Million |
| Response Time | < 6.5ms NTSC / PAL |
| Video System Frequency (H) | 31~80Kh2 |
| Frequency (V) | 56~75Hz |
| March March 1995 | WACE |
| AV(Composite) in/ Out | 2/2 |
| 5-Video In / Out | 1/1 |
| RGB In(15Pin D-Sub) | 1 |
| Component(Y, Pb, Pr, Sound L/R) In | 1 |
| DVI-in HDMI in | 1 |
| Triggerin | 1 |
| AV(Composite) Sound In/Out (RCA Type) | 2/2 |
| PC Stereo In/Out | 1/1 |
| AU | DIO . |
| Built in speaker | 7W×2 |
| | PIP/PBP/VOV |
| Multi Display Function Filter Type | 3D Comb filter / DeInterlace |
| LCD Protection Glass | Not Available |
| Trigger Sensor / Image Rotation | YES / YES |
| Video Resolution(Max) | 600 TV Line |
| Camera Mounting Hole | Not Available |
| Multi-lingual Language | English, Spanish, French, German, |
| | Italian, Portuguese, Dutch |
| | VS:ONS 41.85" x 25.79" x 4.72" |
| | |
| Outline Dimension | |
| (WxHxD) | (1063.0mm x 665.0mm x 120.0mm) |
| (WxHxD) Net Weight | (1063.0mm x 665.0mm x 120.0mm) 68.30 lbs (31.0kg) |
| (WXHXD) Net Weight | (1063.0mm x 665.0mm x 120.0mm) |
| (WXHXD) Net Weight WG VESA | (1063.0mm x 665.0mm x 120.0mm) 68.30 lbs (31.0kg) |
| (WXHXD) Net Weight VESA Transmitter - IR Remote Control | (1063.0mm x 665.0mm x 120.0mm) 68.30 lbs (31.0kg) UNI (130x130)mm x 634mm |
| (W.X.H.X.D) Net Weight VESA Transmitter - IR Remote Control Power - Electrical Ratings | (1063.0mm x 665.0mm x 120.0mm) 68.30 lbs (31.0kg) UNY (130x130)mm x 634mm SRAL YES AC100 ~ 240V(50/60Hz) |
| (W.X.H.X.D) Net Weight VESA Transmitter - IR Remote Control Power - Electrical Ratings - Consumption | (1063.0mm x 665.0mm x 120.0mm) 68.30 lbs (31.0kg) UNV (130x130)mm x 634mm SR4L YES AC100 ~ 240V(50/60Hz) 200W |
| (W.X.H.X.D) Net Weight VESA Transmitter - IR Remote Control Power - Electrical Ratings - Consumption Warranty - Parts/ Labor | (1063.0mm x 665.0mm x 120.0mm) 68.30 lbs (31.0kg) UNI (130x130)mm x 634mm SNAL YES AC100 ~ 240V(50/60Hz) 200W 3 Year / 3 Year |
| [WxHxD] Net Weight VESA Transmitter - IR Remote Control Power - Electrical Ratings Consumption Warranty - Parts/ Labor - MTBF (Approx.) | (1063.0mm x 665.0mm x 120.0mm) 68.30 lbs (31.0kg) (130x130)mm x 634mm YES AC100 ~ 240V(50/60Hz) 200W 3 Year / 3 Year 50,000 Hours |
| WEXHEAD) Net Weight VESA Transmitter - IR Remote Control Power - Electrical Ratings - Consumption Warranty - Parts/ Labor - MTBF (Approx.) Jperating Temperature | (1063.0mm x 665.0mm x 120.0mm) 68.30 lbs (31.0kg) (130x130)mm x 634mm SN-U. YES AC100 ~ 240V(50/60Hz) 200W 3 Year / 3 Year 50,000 Hours 32 -104°F/0 - 40°C |
| [WxHxD] Net Weight VESA Transmitter - IR Remote Control Power - Electrical Ratings - Consumption Warranty - Parts/ Labor - MTBF (Approx.) Jperating Temperature Regulations | (1063.0mm x 665.0mm x 120.0mm) 68.30 lbs (31.0kg) UNT (130x130)mm x 634mm YES AC100 ~ 240V(50/60Hz) 200W 3 Year / 3 Year 50,000 Hours 32 - 104°F / 0 - 40°C TUV-NRTL (=UL), CB, FCC(B), CE-Emc(LVD) |
| [WxHxD] Net Weight VESA Transmitter - IR Remote Control Power - Electrical Ratings - Consumption Warranty - Parts/ Labor - MTBF (Approx.) Jperating Temperature | (1063.0mm x 665.0mm x 120.0mm) 68.30 lbs (31.0kg) (130x130)mm x 634mm SN-U. YES AC100 ~ 240V(50/60Hz) 200W 3 Year / 3 Year 50,000 Hours 32 -104°F/0 - 40°C |

Not Available

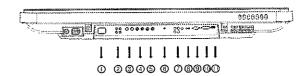
- Rack

VZ-42RTH ADVANTAGES:

- 42" LCD CCTV Monitor
- HD 1080p Resolution
- BNC, VGA, HDMI, DVI
- 3D Comb-filter, De-interlace, Built-in Speakers
- 3-Year Warranty
- Image Rotation Feature Pervents "Burn-In"



INTERFACE



- 1. AC110V IN
- 2. AV(composite) SOUND IN/OUT
- 3. S-VIDEO IN/OUT
- 4. AV(composite)2 IN/OUT
- 5. AV(composite)1 IN/OUT 6. TRIGGER IN
- 8, PC STEREO IN/OUT 9, VGA

7. COMPONENT

- 10. DVI
- 11. HDMI

Contact ViewZ

- Address: 1220 N.Kraemer Blvd, Anaheim, CA, 92806
- Phone: (714)630-3380, Fax: (714)630-2335
- Sales: sales@viewzusa.com

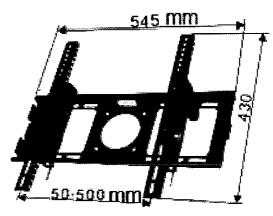
ViewZ

1220 N .Kraemer Blvd Anaheim CA 92806 TEL: 714-630-3380

MODEL WM-50

TILTING WALL MOUNT FOR ViewZ 26RTC/32RTC and 26PVM/32PVM DISPLAYS





- •TILT UP TO 15degrees-FAST AND SIMPLE INSTALLATION
- **•SLIM DISTANCE TO WALL 83mm**
- **•CONVENIENT BUILT IN LEVEL INDICATOR**
- •FOR ALL ViewZ DISPLAYS LISTED ABOVE
- •MAY BE USED WITH NON-VESA MOUNT COMPATIBLE DISPLAYS
- •VESA MOUNT COMPATIBLE UP TO 500x400mm AND MAX WGT 132Lbs
- •LATERAL ADJUSTMENT
- •RUGGED BLACK POWDERCOAT FINISH
- **•UL/GS LISTED**

INCLUDED WITHIN KIT

WALLMOUNT FOR 26"-32"DISPLAYS
COMPLETE ATTACHMENT HARDWARE
INSTALLATION GUIDE

CTN WGT 8.3Lb CTN DIMENSIONS 22.4"x8.2"x4"

ARCHITECTURAL SPECIFICATIONS

The Flat Panel Tilt Wall Mount shall be ViewZ Model WM-50, with 15 degrees tilt. and UL listed. It shall be installed at all locations as listed per plans. Assembly and install shall be done according to the Manufacturer's install guide. by a professional installation crew.

Specifications subject to change without notice.

LB3000 Series Lock Box WALL MOUNT, TAMPER RESISTANT

Product Features

- · Holds VCR, Multiplexer, and Tapes
- . Monitor Can Be Placed on Top of Lock Box
- · Vented Top and Bottom Panels
- · Wall Mount; Wiring Access Through Wall
- Tamper-Resistant Top and Side Panel Access for Connections
- LB3000PS Includes Integral Camera Power Supply

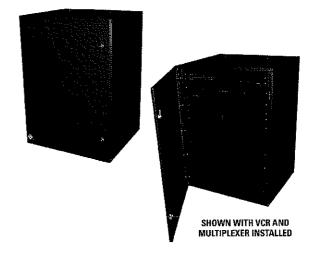
The **LB3000 Series** lock box provides a secure housing for a VCR, multiplexer, manuals, and up to 32 VCR tapes. Two keyed locks on the front door prevent unauthorized entry.

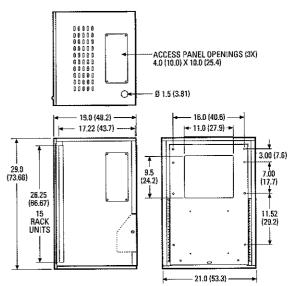
The **LB3000** and **LB3000PS** are designed for mounting to wall studs. Installation is easy: A mounting plate is attached to the wall over a standard outlet electrical box, and then the lock box is quickly fastened to the mounting plate. Cables for video and power cables are brought into the lock box through a hole in the wall. Panels with tamper-resistant screws in the top and sides of the lock box permit access for wiring.

An integral master power supply is provided with the **LB3000PS** to provide 24 VAC power to cameras that are connected to the multiplexer. The power supply can handle as many as 16 cameras.

Ventilation holes in the top and bottom of the **LB3000/LB3000PS** allow air to circulate through the unit so heat generated by the equipment can escape.

Inside the lock box, space is provided at the top for a rack-mounted multiplexer, such as Pelco's Genex® Series multiplexer. Below the multiplexer there is a shelf to place a VCR, such as Pelco's TLR3096 or TLR3168. Beneath the VCR is a small shelf for storage of documentation. Finally, two shelves in the bottom of the lock box permit storage of 16 video tapes each. A monitor, such as Pelco's PMC14H, can be set on top of the lock box to view surveillance activity.





NOTE: VALUES IN PARENTHESES ARE CENTIMETERS; ALL OTHERS ARE INCHES.



 ϵ



SAOMENDERS SAUNTREE

MODELS

LB3000 Wall mount lock box for VCR, multiplexer, and

LB3000PS Same as LB3000 except includes integral

master power supply with 16 fused

24/28 VAC outputs

RELATED PRODUCTS

MX4000 Series Genex multiplexer, 9- or 16-channels, color/

monochrome, simplex/duplex

14-inch, high resolution color monitor PMC14H TLR3096 96-hour time-lapse VCR

TLR3168 168-hour time-lapse VCR

ELECTRICAL

(Model LB3000PS Only)

Input Voltage 120 or 240 VAC, 50/60 Hz

24/28 VAC Output Voltage

Outputs Supply Current 10 A

Maximum Current

per Channel 3 A

Required Input Current

120 VAC 2.20 A 240 VAC 1.15 A Surge Protection Yes

Output Fuse Rating 3 A

Output Connectors Screw-type barrier strips 12-22 gauge, solid or stranded wire

Output Wire Size

Recommended Wiring Distances Refer to chart below

The following are the recommended maximum distances (transformer to load) and are calculated with a 10-percent voltage drop. (Ten percent is generally the maximum allowable voltage drop for AC-powered devices.) Distances are calculated in feet; values in parentheses are meters.

Recommended Wiring Distance Chart

| | | Wire Gauge | | | | | |
|---------|----------|------------|-------|-----------|-------|-----------|-------|
| Input | Total VA | 20 A | WG | 18 AWG | | 16 AWG | |
| Voltage | Consumed | (0.5 | mm²) | (1.0 mm²) | | (1.5 mm²) | |
| 24 VAC | 10 | 283 | (86) | 451 | (137) | 716 | (218) |
| | 20 | 141 | (42) | 225 | (68) | 358 | (109) |
| | 30 | 94 | (28) | 150 | (45) | 238 | (72) |
| | 50 | 56 | (17) | 90 | (27) | 143 | (43) |
| 28 VAC | 10 | 386 | (117) | 614 | (187) | 975 | (297) |
| | 20 | 193 | (58) | 307 | (93) | 487 | (148) |
| | 30 | 128 | (39) | 204 | (62) | 325 | (99) |
| | 50 | 77 | (23) | 122 | (37) | 195 | (59) |

GENERAL

65 lb (29.4 kg) Maximum Load Mounting

8, 3/8-inch mounting holes Opening in back of lock box: 11.0" W x 9.5" H Cable Entry

(27.9 x 24.1 cm) Indoor

Environment

Dimensions 19.0" D x 21.0" W x 29.0" H (48.2 x 53.3 x 73.6 cm)

Construction

Lock Box Aluminum Mounting Plate Steel Mounting Plate Support Steel

Charcoal gray polyester powder coat

Weight LB3000 LB3000PS Unit Shipping 48 lb (21.7 kg) 59 lb (26.7 kg) 65 lb (29.4 kg) 76 lb (34.4 kg)

CERTIFICATIONS

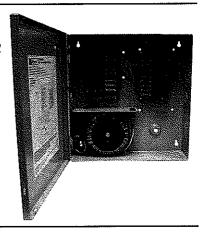
· CE compliant

Altronix® ALTV2416300UL, ALTV2416300ULCB UL Listed AC CCTV Power Supply

Rev. DSALTV2416300UL - E26I

Overview

These Altronix AC Wall Mount CCTV Power Supplies provide 24VAC or 28VAC distributed via sixteen (16) fuse or Class 2 Rated PTC protected power limited outputs for powering CCTV Cameras, heaters and other video accessories.



Specifications

- Input 115VAC, 50/60Hz, 2.7 amp.
- 24VAC @ 12.5 amp (300VA) or 28VAC @ 10 amp (280VA) supply current.
- Main fuse rated @ 10 amp/250V.
- Illuminated power disconnect circuit breaker with manual reset.
- · Surge suppression.

- · AC power LED.
- Spare fuse(s) provided (all models w/primary and/or secondary fuses).
- Unit maintains camera synchronization.
- · Ease of installation saves time and eliminates costly labor.

Models

ALTV2416300UL

- Sixteen (16) fuse protected outputs.
- Outputs are rated @ 3.5 amp.

ALTV2416300UL3

ALTV2416300UL w/3-wire Line Cord.

ALTV2416300ULCB

- · Sixteen (16) Class 2 Rated PTC protected power limited outputs.
- Outputs are rated @ 2.5 amp.

ALTV2416300ULCB3

ALTV2416300ULCB w/3-wire Line Cord.

Agency Approvals



UL Listed for Commercial CCTV Equipment (UL 2044).



European Conformity

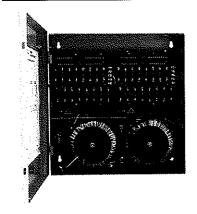


CUL Listed - CSA Standard C22.2 No.1-98, Audio, Video and Similar Equipment.



Altronix® ALTV2432600UL, ALTV2432600ULCB **UL Listed AC CCTV Power Supply**

Rev. DSALTV2432600UL - A19F



Overview

• These Altronix AC Wall Mount CCTV Power Supplies provide 24VAC or 28VAC distributed via thirty-two (32) fuse or Class 2 Rated PTC protected power limited outputs for powering CCTV Cameras, heaters and other video accessories.

ALTV2432600UL

- Thirty-two (32) fuse protected outputs.
- Outputs are rated @ 3.5 amp.

ALTV2432600UL3

ALTV2432600UL w/3-wire Line Cord.

ALTV2432600ULCB

- Thirty-two (32) Class 2 Rated PTC protected power limited outputs.
- Outputs are rated @ 2.5 amp.

ALTV2432600UCB3

ALTV2432600ULCB w/3-wire Line Cord.

Specifications

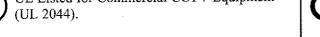
- Input 115VAC, 50/60Hz, 5.4 amp.
- 24VAC @ 25 amp (600VA) or 28VAC @ 20 amp (560VA) supply current.
- · Illuminated power disconnect circuit breaker with reset.
- · Surge suppression.

- · AC power LEDs.
- Spare fuse(s) provided (all models w/primary and/or secondary fuses).
- Unit maintains camera synchronization.
- · Ease of installation saves time and eliminates costly labor.

Agency Approvals



UL Listed for Commercial CCTV Equipment

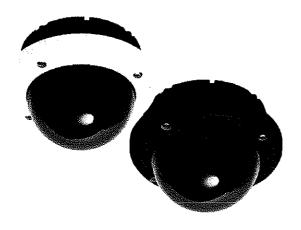




Audio, Video and Similar Equipment.



European Conformity



Discover Indoor/Outdoor Mini-Domes

Features That Make a Difference:

- High impact vandal resistant housing that retains shape even after forceful impact
- Snap-on bubble liner for an extra level of covertness
- Advanced pivoting axis provides greater viewing flexibility
- Two quality auto iris lens options for better image quality and improved low light performance
- High impact vandal resistant polycarbonate bubbles (clear and tinted)
- Multiple camera options, including WDR model with latest Pixim® technology and True Day/Night with moving IR filter
- Night-Saver mode for extreme low light conditions
- Easy installation with eight mounting options (surface, flush, pendant, wall, wall-pole, wall-exterior corner, inside corner, electrical box)
- Discover drone option
- IP66 and NEMA4-rated¹ for -30° to 50°C (-22° to 122°F)

The Discover series of Mini-Domes delivers a vandal resistant camera solution at a non-vandal resistant price. This series of high performance mini-domes includes high impact, vandal resistant dome housings built to withstand even the harshest environments. Unlike other dome housings in the industry, which are made of metal, the Discover series housing is made with extremely durable composite and polycarbonate materials that have "shape memory". The Discover housing comes with a choice of clear or tinted vandal resistant bubbles and includes a bubble liner to make it more covert. An advanced pivoting axis lets you position the camera at exactly the angle you need, while optimal white balance provides the clearest, most color-perfect images possible.

With three different types of mini-domes to choose from, there's a Discover solution just right for your particular requirements.

The Discover wide dynamic range (WDR) mini-dome uses over 504 lines of resolution and a pixel-by-pixel shutter speed that lets you see better in areas where both very bright and dark areas exist, such as an entranceway. This model also features up to a 2x digital zoom to get an even closer view of the action. Night-Saver mode improves performance in low light situations,

automatically switching from color to monochrome as light dims, and reverting back to color once light is restored. The WDR mini-dome also includes a DVR-Saver mode which helps conserve valuable hard drive space, reducing the size of video files by up to 30% when used with an Intellex digital video management system.

The Discover high resolution mini-dome has 540 TVL and also includes a user-selectable Night-Saver mode. For challenging lighting environments, a selectable expanded auto white balance mode is available. Vivid colors and powerful low light performance provide some of the best images available on the market today.

The True Day/Night model incorporates a moving IR cut filter and switches automatically from color to monochrome to provide enhanced IR-sensitive night viewing.

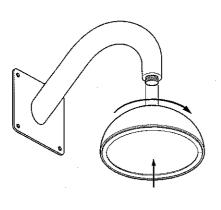
The Discover series includes a drone option—which looks like a mini-dome from the outside but without a camera inside—and is perfect for crime deterrence at an even greater cost savings.

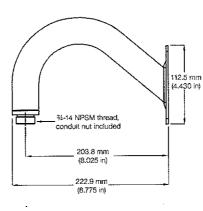
Discover Mini-Dome Mounts

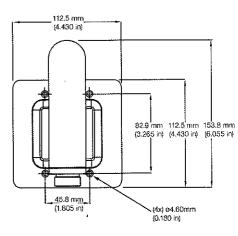
The Discover series of Mini-Domes includes eight mounting options that work with the vandal resistant cameras. Choose from surface, flush, pendant, wall, wall-pole, wall-exterior corner, inside corner, or electrical box-mounts. With eight mounting options, there is a mount to fit any installation situation. All the mounts are quick and easy to install. Installing the surface mount is easy and requires just four screws. Flush mounts have two automatic swing-out tabs that clamp onto the installation surface. An optional pendant cap provides a three-quarter inch thread for pendant mount installation while maintaining an environmental seal. The same pendant cap is available in an attractive wall mount configuration. A pole strap adapter is also available for the wall mount arm. A corner bracket adapter is available for wall-pole and inside corner mounting applications such as when needed for mounting inside an elevator. All of the eight mounts are available in black and white finishes.

| Mounts White | Black | |
|-----------------|------------------|--|
| ADCDMWALL | ADCBMWALL. | Wall mount w/pendant cap |
| ADCDMCRNRO | ADCBMCRNRO | Outside corner adapter for use with ADCDMWALL or ADCBMWALL |
| ADCDMPEND | ADCBMPEND | Pendant cap, three-quarter inch thread |
| ADCDMCRNR | ADCBMCRNR | Corner mount |
| ADCDMPOLE | ADCBMPOLE | Pole mount for use with ADCDMWALL or ADCBMWALL |
| ADCDMELEC | ADCBMELEC | 4S electrical box adapter |
| ADCODRONE | ADCBDRONE | Drone, no camera or lens capability |
| Accessories | | |
| ADCDHTR | Heater, 24V AC | only, 7W |
| ADCDSLC | Video service le | ead cable |

Wall Mount with Pendant Cap (ADCDMWALL)





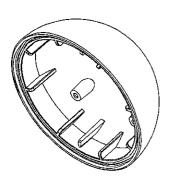


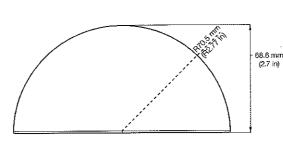
Angled View

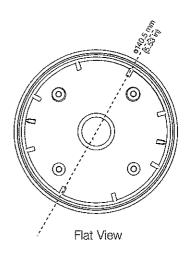
Side View

Front View

Pendant Cap with Three-Quarter Thread (ADCDMPEND)





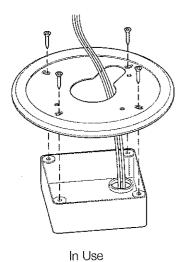


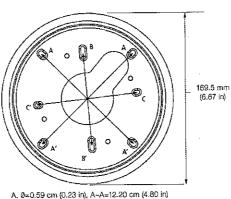
Angled View

Side View

4S Electrical Box Adapter (ADCDMELEC)

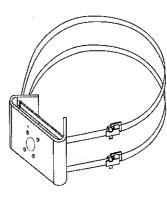
Pole Mount Adapter (ADCDMPOLE)





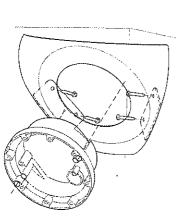
A. \emptyset =0.59 cm (0.23 in), A-A=12.20 cm (4.80 in) B. \emptyset =0.36 cm (0.14 in), B-B=9.60 cm (3.78 in) C. \emptyset =0.53 cm (0.21 in), C-C=8.42 cm (3.32 in)

Flat View

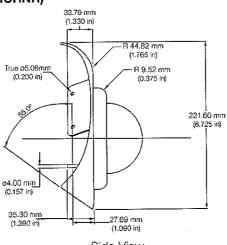


Angled View

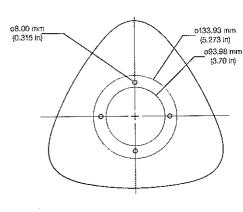
Inside Corner Mount (ADCDMCRNR)





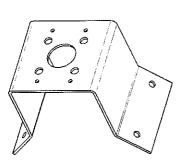


Side View

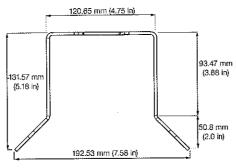


Flat View

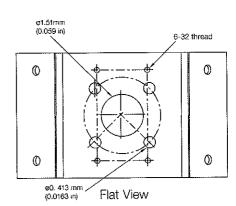
Outside Corner Mount (ADCDMCRNRO)



Angled View



Side View



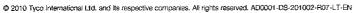
SPECIFICATIONS

| | Wide Dynamic Range | High Resolution | True Day/Night |
|----------------------------------|--|--|--|
| ieneral | | | |
| Imager | Pixim orca sensor | 1/3-inch CCD | 1/3-inch CCD |
| Video Output | 1.0 Vp-p/75-ohm, BNC | 1.0 Vp-p/75-ohm, BNC | 1.0 Vp-p/75-ohm, BNC |
| Horizontal Resolution | 504+ TV lines | 540 TV lines | 540 TV lines |
| Active Pixel Count (H x V) | Universal: 720 x 540 | NTSC: 768 x 494 (PAL: 752 x 582) | NTSC: 768 x 494 (PAL: 752 x 582 |
| Minimum Illumination | 0.95 lux @ F1.2 | Typ²: 0.65 lux @ F1.2 Min³: 0.19 lux @ F1.2 | Day: 0.65 lux @ F1.2 Night: 0.07 lux @ F1.2 |
| Digital Slow Shutter (DSS) | 2x (default) - 32x | N/A | N/A |
| Wide Dynamic Range | 120 dB/17-bit | N/A | N/A |
| Sync System | Line-lock, phase-adjustable or internal | Line-lock, adjustable or internal | Line-lock, adjustable or internal |
| S/N Ratio | >42 dB | 50 dB | 50 dB |
| White Balance | Automatic white balance (AWB), One-touch & manual | AWB | AWB |
| AWB Ranges-Normal (Extended) | 2200 - 7500 K (2000 -11000 K) | 2700 - 11000 K (2000 - 18000 K) | 2700 - 11000 K (2000 - 18000 K |
| WDR Metering Zone | One zone adjustable | N/A | N/A |
| Backlight Compensation | N/A | Center weighted on/off | Center weighted on/off |
| Flickerless Mode | Selectable on/off | Selectable on/off | Selectable on/off |
| Night-Saver | Selectable on/off | Selectable on/off | N/A |
| DVR-Saver Mode | Selectable on/off | N/A | Selectable on/off |
| Digital Zoom | Scalable, up to 2x | N/A | N/A |
| Power Consumption | 3 watts | 2.8 watts | 4.5 watts |
| Weight | . 0.9 kg (1.9 lbs) | 1.0 kg (2.2 lbs) | 1.0 kg (2.2 lbs) |
| | Common to all Dis | cover Mini-Domes | |
| hysical, Electrical, Environment | al & Regulatory | Lenses | |
| Dimensions (H x W) | 92 x 136 mm (3.6 x 5.4 in) | 3.0 - 9.0 mm auto iris lens | 5 |

| | Common to all Discover | Mini-Domes | |
|--|---|---|---|
| Physical, Electrical, Environmental & | Regulatory | Lenses | |
| Dimensions (H x W) | 92 x 136 mm (3.6 x 5.4 in) | 3.0 – 9.0 mm auto iris lens | |
| Housing Color | White or Black | F-Stop Field of View (H x V) | F1.2 ~ 360 90.0" x 66.2" (wide) & 31.8" x 23.9" (tele) |
| Environmental Rating | IP664, NEMA44 | 9.0 – 22 mm auto iris lens | |
| Bubble Diameter | 94 mm (3.7 in) | F-Stop Field of View (H x V) | F1.4 ~ 360 32.1" x 23.3" (wide) & 13.1" x 9.8" (tele) |
| Bubble Thickness | 2.5 mm (0.1 in) | 2.9 – 10 mm auto iris lens ⁷ | |
| Bubble F-Stop | F1.0 (tinted); F0 (clear) | F-Stop Field of View (H x V) | F1.2 ~ 360 94.6° x 68.4° (wide) 28.8° x 21.6° (tele) |
| Pan & Effective Tilt (at 17 in) Range⁵ | 360° & 180° (+/-90°) | | |
| Power Input | 12 VDC -10% +20% 24 VAC +/-20%, 50/60 Hz | | |
| Power Connection | Flying lead or plug | | |
| Operating Temperature (with heater) Operating Temperature (without heater) | -30°C to 50°C (-22°F to 122°F) -10°C to 50°C (14°F to 122°F) | | |
| Humidity | 90% (noncondensing) | | |
| Storage Temperature | -20° to 60°C (-4° to 140°F) | | |
| Emissions | FCC part 15 Class B EN55022 ICES-003 | | |
| Immunity | EN50130-4 | • | |
| Safety | IEC 60950, UL 60950, CSA C22.2 No. 60950 | | |
| | | | |

| BRAND | FINISH | TYPE | LENS | BUBBLE | FORMAT |
|-------|--|------------------------|--|-------------------------|--------------------|
| AD | XX | X | XXXX | X | X |
| | | EH = High resolution | 0309 = 3.0 - 9.0 mm 0922 = 9.0 - 22 mm | | N = NTSC P = PAL |
| AD | CD = Vandal resistant, White CB = Vandal resistant, Black | W = Wide dynamic range | 0309 = 3.0 - 9.0 mm 0922 = 9.0 - 22 mm | C = Clear T = Tinted | U = Universal |
| | | T = True Day/Night | 2910 = 2.9 - 10 mm 0922 = 9.0 - 22 mm | | N = NTSC P = PAL |

Product offerings and specifications are subject to change without notice. Actual products may vary from photos. Not all products include all features. Availability varies by region; contact your sales representative. Certain product names mentioned herein may be trade names and/or registered trademarks of other companies.



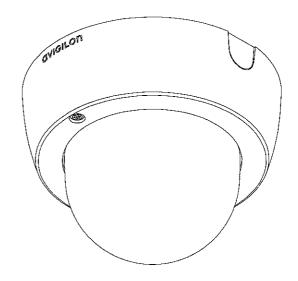




⁽²⁾ Specified at 178mV (for comparison purposes)
(3) Specified at 78mV (usable signal level)
(4) Self certified
(5) Using a 2.5-6 mm lens at wide angle
(6) Offered on high resolution and wide dynamic range cameras only
(7) Offered on True Day/Night cameras only

AVIGILONTHE BEST EVIDENCE TO

1.0 Megapixel Day/Night High Definition H.264 Indoor IP Dome Camera



Description

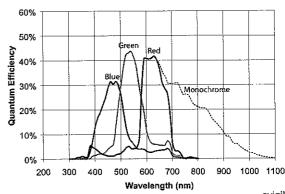
The Avigilon 1.0 megapixel day/night high definition H.264 IP indoor dome camera is a progressive scan CMOS camera designed for a wide range of surveillance applications. An integrated fully motorized lens provides remote zoom and focus for easy installation and unsurpassed image quality. It transmits images over 100BASE-TX using H.264 technology to achieve the lowest network bandwidth, and requires minimal storage for video at high frame rates with superior image quality.

The camera's advanced image acquisition system automatically adjusts the exposure time, iris aperture and removable IR cut filter to ensure all available evidence is captured throughout the full range of day and nighttime scenes. The camera is designed for indoor surface mounting and can be mounted to an electrical box.

The camera seamlessly integrates with Avigilon Control Center NVMS and High Definition NVRs. The camera uses standard network technology to create a network based surveillance solution with unmatched performance, ease of use, and ease of installation. ONVIF compliance provides support from other leading video management systems. Camera power is provided by either Power over Ethernet, 12 VDC, or 24 VAC.

Features

- · 1.0 megapixel progressive scan CMOS sensor
- Unsurpassed image quality
- 3-9 mm, F1.2 lens with remote focus and zoom
- · 30 images per second at full resolution
- · 69 dB true dynamic range
- 0.2 lux minimum illumination in color mode and
 0.02 lux minimum illumination in monochrome mode
- · H.264 and JPEG compression
- · ONVIF compliant API
- Multiple video streams
- Automatic exposure and iris control
- Automatic removable IR cut filter for sensitivity at night
- Power over Ethernet, 24 VAC or 12 VDC power input
- Audio input
- · Analog Video Output
- External I/O



Specifications

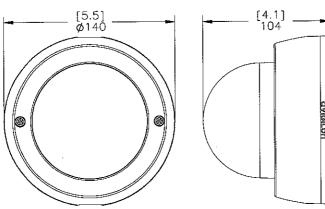
| Camera | | Mechanical | |
|-------------------------------------|---|-----------------------|--------------------------------------|
| Image Sensor | 1/2.7" progressive scan CMOS | Dimensions (ØxH) | 140 mm x 104 mm |
| Active Pixels | 1280 (H) x 720 (V) | | 5.5" x 4.1" |
| Imaging Area | 5.9 mm (H) x 3.3 mm (V) | Weight | 0.55 kg (1.2 lbs) |
| • | 0.231" (H) x 0.129" (V) | Dome Bubble | Polycarbonate, clear |
| Minimum Illumination | 0.2 lux (F1.2) in color mode | Body | Plastic |
| | 0.02 lux (F1.2) in monochrome mode | Housing | Surface mount, tamper resistant |
| Dynamic Range | 69 dB | Finish | Plastic, RAL 9003 |
| Lens | 3-9 mm, F1.2, DC-iris, | Adjustment Range | 360° pan, 180° tilt, 360° azimuth |
| Angle of View | remote focus and zoom 35°-88° | Electrical | |
| Image Compression Method | H.264 (MPEG-4 Part 10/AVC), Motion JPEG | Power Source | VDC: 12 V |
| Income Date | | | VAC: 24 V |
| Image Rate | 30 (all resolutions) Multi-stream H.264 and Motion JPEG | | PoE: IEEE802.3af Class 3 compliant |
| Streaming | Down to 352 x 240 | Power Consumption | 5 W |
| Resolution Scaling Motion Detection | Selectable sensitivity and threshold | Power Connector | 2-pin terminal block |
| Electronic Shutter Control | Automatic, Manual (1/30 to 1/8000 sec) | | |
| Iris Control | Automatic, Manual | Environmental | |
| Day/Night Control | Automatic, Manual | O Town a material | -10 °C to +50 °C (14 °F to 122 °F) |
| Flicker Control | 50 Hz, 60 Hz | Operating Temperature | -10 °C to +70 °C (14 °F to 158 °F) |
| White Balance | Automatic, Manual | Storage Temperature | 20 - 80% Relative humidity (non-con- |
| Privacy Zones | Up to 4 zones | Humidity | densing) |
| Audio Înput | Line input, A/V mini-jack (3.5 mm) | | derisitiy) |
| Audio Compression Method | G.711 PCM 8 kHz | Certifications | |
| Video Output | NTSC/PAL, A/V mini-jack (3.5 mm) | | |
| External I/O Terminals | Alarm In, Alarm Out | | CE, Class B |
| | | | FCC, Class B |
| Vetwork | | | UL/cUL Listed |
| Network | 100BASE-TX | Ordering Information | |
| Cabling Type | CAT5 | Ordering information | |
| Connector | RJ-45 | 1.0MP-HD-H264-D1 | 1.0 Megapixel Day/Night |
| API | ONVIF compliant (www.onvif.org) | | High Definition H.264 |
| Security | Password protection, HTTPS | | Indoor IP Dome Camera |

HD-H264-D-SMOKE

Outline Dimensions

Protocols

Streaming Protocols



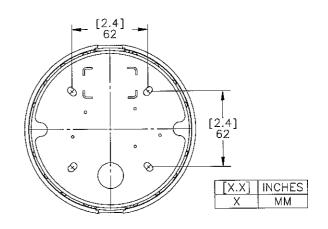
encryption, digest authentication, WS

IPv4, HTTP, HTTPS, SOAP, DNS, NTP,

RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, Zeroconf, ARP RTP/UDP, RTP/UDP multicast, RTP/

RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/RTSP/HTTPS/TCP, HTTP

authentication, user access log

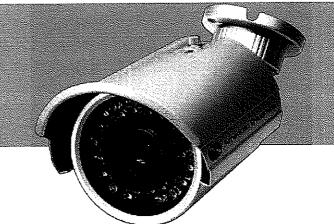


Bubble

Dome Camera Cover with Smoked



Discover 600 Series Cameras Bullet



Features That Make a Difference:

- Super high resolution 520 TVL camera
- Day/Night switching for low light conditions
- IR corrected, 3X vari-focal lens
- Built-in infrared illumination
- IP66-rated housing for outdoor use
- · Complete with lens and universal mount
- Provided with a wall/ceiling mount fitted

The Discover 600 Series Bullet cameras offer high performance and features, to provide excellent image quality under many lighting conditions. Both cameras in the series offer backlight compensation (BLC), automatic gain control (AGC), Auto Electronic Shutter (AES) and automatic white balance (AWB). These high performance models offer many advanced and easy-to-use features including Day/Night functionality, 3X zoom IR corrected lens, infrared (IR) array and IP66 rated housing.

The Discover 600 Series bullet cameras are the ideal choice for applications requiring 540 TVL to provide super high resolution images and accurate color rendition.

For scenes with typical lighting conditions such as daylight or lit indoor applications, these cameras provide 520 TVL ultra high resolution images. When light levels drop, the camera automatically turns on the built-in IR illuminators and switches from color to black and white to capture images in very low light.

Cameras are available in NTSC or PAL formats and are provided in IP66-rated housings to meet a variety of installation requirements. These cameras are extremely reliable, easy-to-install, and ideally suited for areas where high performance in a variety of lighting conditions is required.



Specifications

Operational

Imager..... Interline transfer 1/3 inch CCD array

Active Pixel Count NTSC.... 768 x 494 pixels Active Pixel Count PAL 752 x 582 pixels

S/N Ratio 48 dB (AGC Off)

Synchronization..... Internal IR Wavelength 850 nm

IR Distance Up to 25 m (80 ft) Gain Control Auto¹

White Balance..... Auto (2,500°K to 9,500°K) Electronic Shutter Auto (1/60 (1/50) ~ 1/100,000 sec.)

Backlight Compensation . . . On/Off Day/Night Auto

Connectors

Input Power..... In-line socket

Composite Video..... BNC

Electrical

DC Voltage 12VDC (±10%)² Power 5.5 Watts maximum

Mechanical

Dimensions (Diameter x H) ... 57 mm x 68 mm (2.24 in x 2.67 in)

Construction Metal Ingress protection IP66 Color Gray

Environmental

Operational Temperature -10°C to 50°C (14°F to 122°F) Storage Temperature..... -20°C to 60°C (-4°F to 140°F)

Relative Humidity......90%

Ingress Protection IP66 (noncondensing)

Regulatory

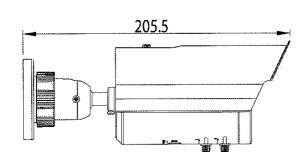
Emissions FCC: Part 15, Class B CE: EN61000, Class B

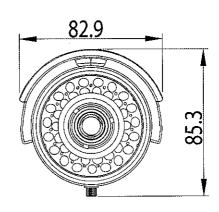
Safety NTSC: UL60950, CSAC22.2 No 60950

PAL: IEC60950

Ordering Information

| Model Numbers | Description |
|---------------|--|
| ADCD600-B0001 | bullet cam, 520TVL, 4.3mm, IR, 12VDC, NTSC |
| ADCD600-B0002 | bullet cam, 520TVL, 4.3mm, IR, 12VDC, PAL |
| ADCD601-B0001 | bullet cam, 520TVL, 3-9mm, IR, 12VDC, NTSC |
| ADCD601-B0002 | bullet cam, 520TVL, 3-9mm, IR, 12VDC, PAL |





Accessories:

Power Supply ADC1121A

- (1) SNR 44d8 at this setting (2) Regulated power supply required

Related Products









Approvals









victor

TVR Series

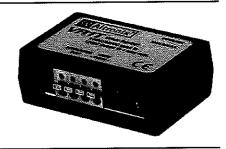
www.amenteanelynamiesmei

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Rev. DSVR1T - C02J

Overview

Converts a 24VAC or 24VDC input into a regulated 12VDC output.



Specifications

- 1 amp of continuous supply current output.
- · Power LED indicator.
- · Electronically filtered and regulated output.
- Built-in overload protection.
- Spring terminal blocks (wire gauge 14-20AWG).
- High impact insulated housing.
- · Compact design allows for integration in a wide range of camera housings.

Dimensions (approximate): 1.625"L x 2.375"W x 1"H

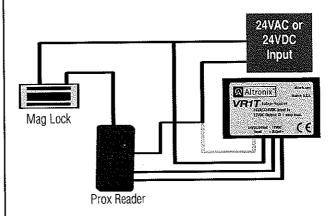
Applications

• Power for 12VDC CCTV cameras and accessories, Fiber Optic Transmitters, REX PIR's, Prox Readers, etc.

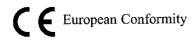
24VAC or 24VDC Input 12VDC Camera Heater VR1T

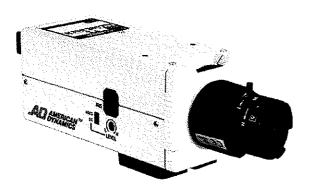
CCTV Applications:

Access Control Applications:

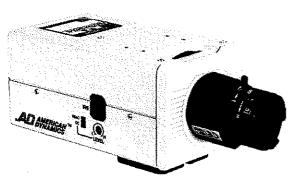


Agency Approvals





ADCSHR2412 Series Camera shown with lens attached*



ADCTDN2412 Series Camera shown with lens attached*

ADCSHR series fixed cameras are the ideal choice for applications requiring 540 TVL to provide super, high resolution images and true color rendition. Depending upon the scene and lighting conditions, the camera offers AWB, AGC, AES, and BLC controls which you can set to optimize image performance. The Night-Saver mode automatically switches the cameras to B/W in scenes with less lighting to provide you with better low-light detail performance. These cameras feature internal and phase adjustable line-lock options for "roll-free" switching. The cameras are available in NTSC or PAL formats with 24 VAC/12 VDC voltages to meet a variety of application requirements. A 230 VAC mains version is also available in a PAL format.

ADCTDN cameras offer the same features as the ADCSHR series but also include a moving mechanical IR cut filter that provides True Day/Night functionality. For scenes with typical lighting such as daylight or lit indoor applications, the camera provides a 540 TVL super, high resolution image. When light levels drop, the camera automatically removes its' IR cut

540 TVL Super High Resolution Fixed Cameras and 540 TVL True Day/Night Fixed Cameras

Features That Make a Difference:

- 540 TVL models with Night-Saver mode and True Day/Night models with moving mechanical IR cut filter
- Available in 24 VAC/12 VDC NTSC, 24 VAC/12 VDC PAL or mains 230 VAC PAL
- Superior low-light performance
- Auto white balance (AWB) adjusts for accurate colors across a multitude of lighting conditions
- Automatic gain control (AGC), automatic electronic shutter (AES), and backlight compensation (BLC)
- Phase adjustable line-lock or internal synchronization
- Compatible with C/CS lenses, video, or DC auto iris versions, including choice of IR corrected, vari-focal lenses for use with True Day/Night camera models
- Available as camera pre-packs for easy ordering and installation
- Day/Night models also include:
 - Focus adjust mode for ease of installation and focus accuracy
 - On-screen menu display for easy programming (such as camera titles)
 - Monitor mode to optimize output for CRT or LCD displays
- Advanced pixel correction
- Factory default settings
- Auxiliary input and output
- Selectable 4 zone BLC
- Manual shutter mode

filter and switches from color to B/W to capture images in very low light. This action can also be triggered manually via an auxiliary input or can trigger an auxiliary output to turn on optional accessories such as IR illuminators. ADCTDN cameras also offer many advanced, easy-to-use features, like on-screen menu programming with default settings. Advanced pixel correction, focus adjust mode for focus accuracy, selectable four zone BLC, manual shutter mode, and a monitor mode to optimize for CRT or LCD displays are also included. For a total solution, IR corrected lenses are available for use with the ADCTDN series.

Both series of American Dynamics cameras are extremely reliable, easy-to-install, and designed for use in a wide variety of applications. These cameras are ideally suited for use in areas where high performance in a variety of lighting conditions is required.



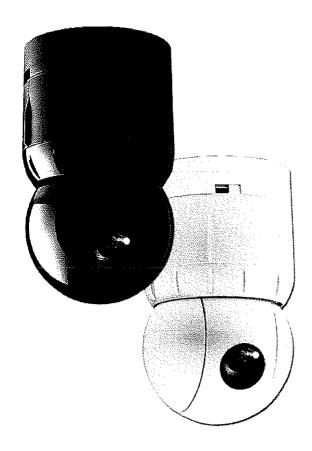
| Super High Resolution Cameras | | olution Cameras | | | |
|--|---|--|--|--|--|
| 90 No. 1995 | ADCSHR2412N ADCSHR2412P | ADCSHR0230P | ADCTDN2412N ADCTDN2412P | ADCTDN0230P | |
| Operational | | Control of the Control of Control of State of Control o | | and the second s | |
| lmager | Interline Transfer 1/3-inch CCD | Interline Transfer 1/3-Inch CCD | Interline Transfer 1/3-inch CCD | Interline Transfer 1/3-inch CCD | |
| Video Output | 1.0 Vp-p/75Ω, Composite | 1.0 Vp-p/75Ω, Composite | 1.0 Vp-p/75Ω, Composite | 1.0 Vp-p/75Ω, Composite | |
| Active Pixel Count (H x V) | NTSC: 768 x 494 | N/A | NTSC: 768 x 494 | N/A | |
| Address to the second s | PAL: 752 x 582 | PAL: 752 x 582 | PAL: 752 x 582 | PAL: 752 x 582 | |
| Minimum Scene Illumination | | | | | |
| Color Mode | 0.7 lux, f1.2, AGC on | 0.7 lux, f1.2, AGC on | 0.4 lux, f1.2, AGC on | 0.4 lux, f1.2, AGC on | |
| Black & White Mode | 0.5 lux, f1.2, AGC on | 0.5 lux, f1.2, AGC on | 0.02 lux, f1.2, AGC on | 0.02 lux, f1.2, AGC on | |
| Horizontal Resolution | 540 TVL | 540 TVL | 540 TVL | 540 TVL | |
| Auto Iris Lens Type | Video iris/DC iris | Video iris/DC iris | Video iris/DC iris | Video iris/DC iris | |
| Backlight Compensation | On/Off | On/Off | 4 zones/Off | 4 zones/Off | |
| Synchronization | Internal/Line-lock | Internal/Line-lock | Internal/Line-lock ATW/ATW wide | Internal/Line-lock ATW/ATW wide | |
| 148-14-17-1 | ATW or Manual mode | ATW or Manual mode | AWC (one touch) | AWC (one touch) | |
| White Balance | (adjustable) | (adjustable) | Manual mode (adjustable) | Manual mode (adjustable) | |
| S/N Ratio | -50 dB | -50 dB | -50 dB | -50 dB | |
| Connectors | 271111111111111111111111111111111111111 | | | | |
| Input Power | 2-pin Screw Terminal | Line cord with Euro plug | 2-pin Screw Terminal | Line cord with Euro plug | |
| Composite Video | BNC | BNC | BNC | BNC | |
| Auxiliary Input/Output | N/A | N/A | 2-pin Push Terminal | 2-pin Push Terminal | |
| DC/Video Auto Iris | 4-pin Square | 4-pin Square | 4-pin Square | 4-pin Square | |
| Electrical | | | | | |
| AC Voltage | NTSC: 24 VAC (+20%, -20%) @ 60 Hz | N/A | NTSC: 24 VAC (+20%, -20%) @ 60 Hz | N/A | |
| | PAL: 24 VAC (+20%, -20%) @ 50/60 Hz | PAL: 230 VAC (220 to 240 VAC) @ 50/60 Hz | PAL: 24 VAC (+20%, -20%) @ 50/60 Hz | PAL; 230 VAC (220 to 240 VAC @ 50/60 Hz | |
| DC Voltage | 12 VDC (+10%, -10%) | | 12 VDC (+10%, -10%) | | |
| Power Consumption | 4.7 watts (380 mA) | 57 mA | 4,8 watts (400 mA) | 75 mA | |
| Physical | | | | | |
| Lens Mount | C/CS | C/CS | C/CS | C/CS | |
| Camera Mount | 1/4-inch x 20 (top or bottom) | 1/4-inch x 20 (top or bottom) | 1/4-inch x 20 (top or bottom) | 1/4-inch x 20 (top or bottom) | |
| Dimensions (W x H x L) | 52 x 58 x 126 mm | 67 x 63 x 126 mm | 67 x 63 x 126 mm | 67 x 63 x 126 mm | |
| | (2.0 x 2.28 x 4.96 in) | (2.56 x 2.48 x 4.96 in) | (2.56 x 2.48 x 4.96 in) | (2.56 x 2.48 x 4.96 in) | |
| Unit Weight | 370 g (0.82 lbs) | 713 g (1.57 lbs) | 480 g (1.06 lbs) | 700 g (1.54 lbs) | |
| Shipping Weight | 600 g (1.32 lbs) | 1.0 kg (2.2 lbs) | 700 g (1.54 lbs) | 1.1 kg (2.42 lbs) | |
| Body Color | Light Gray (Pantone 427c) | Light Gray (Pantone 427c) | Light Gray (Pantone 427c) | Light Gray (Pantone 427c) | |
| Environmental | | · · · · · · · · · · · · · · · · · · · | | | |
| Operating Temperature | -10° to 50°C (14° to 122°F) | -10° to 50°C (14° to 122°F) | -10° to 50°C (14° to 122°F) | -10° to 50°C (14° to 122°F) | |
| Storage Temperature | -30° to 60°C (22° to 140°F) | -30° to 60°C (22° to 140°F) | -30° to 60°C (22° to 140°F) | -30° to 60°C (22° to 140°F)) | |
| Humidity | <90% RH (noncondensing) | <90% RH (noncondensing) | <90% RH (noncondensing) | <90% RH (noncondensing) | |
| Regulatory | | | | | |
| Emissions | NTSC: FCC Part 15 Class B | N/A | NTSC: FCC Part 15 Class B | N/A | |
| | ICES-003 | N/A | ICES-003 | N/A | |
| | PAL: EN61000-6-3 | EN61000-6-3 | PAL: EN61000-6-3 | EN61000-6-3 | |
| | | EN61000-3-2, EN61000-3-3 | | EN61000-3-2, EN61000-3-3 | |
| Immunity | PAL: EN50130-4 | EN50130-4 | PAL: EN50130-4 | EN50130-4 | |
| Safety | NTSC: UL2044; CSA C22.2 | EN60950-1 | NTSC: UL2044; CSA C22.2 | EN60950-1 | |

To complete your camera solution with mounts, lenses, housings, accessories or pre-packs, please refer to our other product data sheets.

Product offerings and specifications are subject to change without notice. Actual products may vary from photos. Not all products include all features. Availability varies by region; contact your sales representative. Certain product names mentioned herein may be trade names and/or registered trademarks of other companies.

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SpeedDome Ultra 8

Programmable Dome Camera

Features that make a difference:

- NEW! Motion detection provides the ability to trigger multiple user-specified actions
- Two powerful series (22x and 35x optical zoom) let you choose the dome that's right for your application
- Powerful 35x optical zoom (ADSDU835) features 540 TVL and other advanced features for superior images
- Store presets and patterns within the base to eliminate reprogramming
- No fans ensure quiet operation and superior reliability
- Integrated Unshielded Twisted Pair (UTP) simplifies wiring and installation
- Covert design eliminates the need for an external bubble
- Innovative I/O base design simplifies installation
- Continuous autofocus provides the clearest images during full range of motion
- Dome usage statistics provide important information on how a dome is utilized.
- Up to 8 enhanced privacy zones give you the flexibility to protect confidential areas or respect personnel privacy
- Advanced on-screen display with titles provides the detail you need to know exactly what you're looking at
- Supports SensorNet, RS-422, AD-UTC, Manchester and select manufacturers protocols¹
- Supports NTCIP protocol, designed specifically for the transportation market.
- 35x series offers Day/Night, Digital Slow Shutter (DSS) and Wide Dynamic Range (WDR) functionality to provide the flexibility to monitor any type of environment
- 35x series offers Electronic Image Stabilization (EIS) to reduce image blurriness when the mounted camera experiences movement

SpeedDome Ultra 8 (35x series)

The 35x series offers the highest performance with 540TVL, 35x optical zoom, WDR, day/night, DSS and EIS. The day/night and DSS features allow you to clearly see images in scenes as dim as 0.00041 lux. EIS reduces the vibration so the image can be viewed properly. This feature is especially useful when the dome is installed in places that subject it to shaking or moving, such as a pole next to a highway. These features combine to make the SpeedDome Ultra 8 series an ideal solution for outdoor applications requiring high resolution images whether up close, far away or for indoor applications requiring the best picture possible, such as in casinos or retail establishments.

SpeedDome Ultra 8 (22x series)

The 22x series delivers excellent color images in scenes as dim as .02 lux. Zoom ability consists of 22x optical and 11x digital zoom for 242x total zoom. Like the 35x series, the 22x offers advanced programmable features including DSS, automatic home position, dome usage statistics, privacy zones, advanced on-screen text, and freeze frame on presets to conserve digital recorder hard drive space. This series is well-suited for indoor applications requiring clarity, color and detail in well lit or low light conditions.

features

Superior Video Images

SpeedDome Ultra 8 features powerful zoom capabilities with either 420x total zoom (35x optical zoom with 12x digital magnifier) or 242x total zoom (22x optical zoom with 11x digital magnifier).

The 35x series includes some of the industry's most powerful features including the innovative WDR capability which compensates for very bright and dark conditions within the same scene. For low light applications, a removable infrared (IR) cut filter provides effective viewing in lighting conditions as low as .00041 lux in black and white mode.

The 35x series also includes the innovative EtS feature which reduces the effects of vibration. This feature is especially useful when the dome is installed in places that subject it to shaking or moving, such as a pole next to a highway.

Both the 22x and 35x series allow you to further compensate for low lighting conditions using DSS technology that allows the CCD imager to accumulate more light. Additional image adjustments include automatic gain control (AGC) and white balance.

Advanced Control and Positioning

SpeedDome Ultra 8 supports up to 96 preset positions² with user-defined titles and 16 preset sequences with a 10 minute dwell time for the ultimate in viewing flexibility. Sixteen patterns are supported and a preprogrammed default spiral pan pattern ("apple peel") covers the entire viewing area. Each pattern can store up to 99 PTZ commands. Using the Freeze Frame feature before moving to a preset minimizes hard drive usage when video is digitally recorded.

The 35x series also includes a motion detection function which monitors areas of interest and, when triggered, provides the ability to call a preset, generate an alarm to a matrix or a controller, initiate a sequence, set an output, or monitor an area as long as motion is present.

Alarms can be processed internally by the dome, externally by the controller or by both the dome and the controller. Each of the dome's alarm inputs can automatically call a preset or run a pattern when the alarm is activated.

To ensure key areas of a facility are continually monitored, an inactive or unattended dome can be configured to return to "home position" after it performs a pre-defined preset, sequence or pattern. When the dome tilts to its lower limits, an innovative automatic proportional flip feature automatically turns the dome 180°. Alternatively, you can manually flip the dome from the keyboard.

To protect sensitive areas, you can program up to 8 privacy zones of different sizes. These privacy zones automatically change size proportionally when zooming in or out.

Zoom adjusted programming (ZAP) automatically adjusts pan and tilt speeds in proportion to zoom position, even at maximum magnification.

In addition to SensorNet, Manchester, AD-UTC, NTCIP, and RS-422 protocols, the dome can be controlled via other select manufacturers' protocols3 such as Pelco® P, Coaxitron, Panasonic® UTC, Vicon® RS-422, and Bosch® Biphase, making it a perfect choice for customers wanting to replace older PTZs.

Powerful On-Screen Display

SpeedDome Ultra 8 generates helpful on-screen text including dome, preset, pattern, alarm and area names as well as direction indicators. These indicators show the direction the dome is currently pointing and the direction in which it is moving. For example, you can assign up to sixteen areas of various sizes to identify boundaries within different areas. In addition, the direction indicators display the dome's azimuth (degree of tilt).

On-screen text indicates zoom, focus, and iris status. All information is user-definable and can be turned on or off. When on, you can set the text to appear solid or translucent white, and with or without black outline makes it easy to ensure the text is always visible, but doesn't block important parts of the image.

On-screen text supports six languages: English, French, Italian, Spanish, German and Portuguese.

Powerful Configuration and Maintenance

A convenient DirectSet feature provides fast access to all of your most frequently used dome features when used with a suitably equipped controller4. To ensure the integrity of your security settings, password protection prevents unauthorized use of the on-screen menus.

The following daisy chain configurations of control wiring are supported:

- RS-422: 10 domes over a maximum distance of 1 km (3000 ft) on two 22 AWG shielded twisted pairs (STP)
- For SensorNet: 32 devices over a maximum distance of 1 km (3000 ft) on one 22 AWG UTP
- For Manchester: 3 domes over a maximum distance of 1500 m (5000 ft) on one 18 AWG STP
- For AD-UTC: Maximum distance per dome is 700 m (2300 ft) on 20 AWG RG59U cable. (Note-This distance is for AD-UTC data only. See cable manufacturer's specifications for video capabilities).

Sensing of 50/60 Hz lines is automatic and does not require manual adjustment. The fully isolated power supply helps eliminate ground loops. Surge protection is provided for video, code, alarms and power connections.

⁽²⁾ Controller dependent, see Preset Table for details.
(3) Compatibility with other manufacturers is based upon known current protocols and controllers at time of test. However, compatibility may be affected if other manufacturers make changes to their products.
(4) A Matrix keyboard or a controller from which users can call DirectSet commands.

To ensure you have ample time to schedule maintenance, the dome maintains statistics on how long it has been on, duration of pan/tilt/zoom movements, number of presets selected and other usage information.

In the event that a camera needs to be changed, the new SpeedDome Ultra 8 I/O base now retains preset and pattern information so a user does not have to spend time reprogramming.

Ease of Installation

The dome incorporates an innovative twist lock release from the mounting base for easy installation and servicing. Power, communication and video cables (or composite cable) are connected at one time to an I/O PC board in the mounting base so the assembly is simply twist-locked onto the base. Service and maintenance are easy and can be accomplished without a ladder or lift via the installation/removal tool. The I/O board mounting base supports four alarm inputs and four alarm outputs (indoor only) as well as power and communication LEDs.



Mounting base with Integral I/O



Options

Model Numbers

Housing /Eyeball Assembly without Mounting Base

ADSDU835N......35x NTSC (black camera body)

ADSDU835WN 35x NTSC (white camera body)

ADSDU822WN 22x NTSC (white camera body)

Mounting Base without Housing/Eyeball Assembly

ADSDUIOB i/O Board Base (black base) ADSDUIOBW I/O Board Base (white base) Housing/Eyeball Assembly with Mounting Base

ADSDU835ION.....35x NTSC (black assembly and base)

ADSDU835WION 35x NTSC (white assembly and base)

ADSDU835IOP 35x PAL (black assembly and base)

ADSDU835WIOP 35x PAL (white assembly and base)

ADSDU822ION 22x NTSC (black assembly and base)

ADSDU822WION 22x NTSC (white assembly and base)

ADSDU822IOP 22x PAL (black assembly and base)

ADSDU822WIOP 22x PAL (white assembly and base)

ADSDU835P......35x PAL (black camera body) ADSDU835WP 35x PAL (white camera body) ADSDU822N 22x NTSC (black camera body)

Optional Bubbles for RHIUTH Top Hat Mount

ADSDUCLRClear Bubble (f0) RUSLV Silver Bubble (f2.0) ADSDUSMK Smoked Bubble (f1.0) RUGLD Gold Bubble (f1.0) **Bubble Specifications**

Bubble diameter 176 mm (6.93 in) Bubble depth 86.5 mm (3.4 in)

Bubble weight. 0.13 kg (4.4 oz) with trim ring

Dome Kit Model Numbers and What's Included

SpeedDome Ultra 8 domes can be ordered as pre-configured kits. A kit includes a camera module, base, mount and housing. Bubbles may be included as noted. Refer to the following chart for a description of the models included with each Dome Kit.

| | | | 35x Sei | ies Kits | 22x Series Kits | |
|-----------------------|---|---|----------------|----------------|-----------------|----------------|
| Mount or Housing Type | | Kit Includes | NTSC | PAL | NTSC | PAL |
| | Indoor hard ceiling w/ no bubble | SpeedDome Ultra 8, RHIUTH and RHIUHC | ADSDU835IHN | ADSDU835IHP | ADSDU822IHN | ADSDU822IHP |
| | w/ smoked bubble | includes above and ADSDUSMK | ADSDU835IHSN | ADSDU835IHSP | ADSDU822IHSN | ADSDU822IHSP |
| | Indoor 2' x 2' drop ceiling w/ no bubble | SpeedDome Ultra 8 and RHIU2X2M | ADSDU835l2X2N | ADSDU835I2X2P | ADSDU822i2X2N | ADSDU822l2X2P |
| | w/ smoked bubble | includes above and ADSDUSMK | ADSDU835I2X2SN | ADSDU835I2X2SP | ADSDU822I2X2SN | ADSDU822I2X2SP |
| | Outdoor housing | SpeedDome Ultra 8 and ADSDUHOC | ADSDU835OPCN | ADSDU835OPCP | ADSDU822OPCN | ADSDU822OPCP |
| | Outdoor housing w/ long wall mount and end cap assembly | includes above and RHOLW | ADSDU835OPCWN | ADSDU835OPCWP | ADSDU822OPCWN | ADSDU822OPCWP |

Number of Presets

| Controller or Matrix Switcher | Protocol | Number of Presets |
|---|---------------------------------|-------------------|
| ADTT16F | SensorNet / RS-422* | 96 /4 |
| MegaPower LT | AD-UTC / SensorNet | 96 /96 |
| MegaPower 48 Plus | SensorNet / Manchester / RS-422 | 96 /64 /96 |
| MegaPower 3200 | Manchester** / RS-422*** | 64 /60 |
| Intellex Digital Video Management Systems | SensorNet***** / RS-422**** | 96 /96 |
| EDVR | RS-422 (Simplex) | 10 |
| Third Party interfaces | RS-485/RS-422 | 96 |

^{*}Using SensorNet to RS-422 converter (model number RCSN422)

[&]quot;Using Manchester code distributor (model number AD2091)

^{***}Using RS-422 code distributor (model number AD2083-02C)

^{****}Requires USB to RS-422 adaptor

[&]quot;""Using USB CCTV Control Module (Model number ADACSNET)



| | 35x Series | 22x Series |
|-------------------------------------|---|--|
| amera | | 14 - 16 - 17 - 17 - 17 - 17 - 17 - 17 - 17 |
| Horizontal Resolution | 540 lines | 470 lines Interline transfer 1/4-inch CCD array |
| Imager | Interline transfer 1/4-inch CCD array | |
| Coopping Custom | 2:1 interface | 2:1 interface |
| MOLD TO Describe | Yes | No No |
| Video Output | 1.0 Vp-p, 75 composite | 1.0 Vp-p, 75 composite |
| S/N Ratio | >50 dB (tyical) | >50 dB (tyical) |
| Minimum Illumination (20IRE, AGC) | 0.24 lux (Color); 0.028 lux (Color with 1/4 sec open shutter) 0.021 lux (B/W IR Mode); 0.00041 lux (B/W IR Mode with 1/2 sec open shutter | 0.3 lux (Color) 0.02 lux (Color with 1/4 sec open shutter) |
| White Balance | Through the Lens (TTL) Automatic Tracing White Balance (ATW) | Through the Lens (TTL) Automatic Tracing White Balance (ATW) |
| NTSC (PAL) | | 700 - 404 (750 - 500) |
| Effective Pixels (H x V) | 768 x 494 (752 x 582) | 768 x 494 (752 x 582) |
| Scanning (lines/fields/frames) | 525 /60 /30 (625 /50 /25) | 525 /60 /30 (625 /50 /25) |
| Horizontal (kHz) | 15.734 (15.625) | 15.734 (15.625) |
| V f = 4f = 1 ff 1eX | 59.9 (50) | 59.9 (50) |
| Ot 11 O I IA - A- II I | 1/2 - 1/30,000 (1/1.5 - 1/30,000) | 1/2 - 1/30,000 (1/1.5 - 1/30,000) |
| ens | | Control of the contro |
| A t (A b deal Decise) | f1.4 | f1.6 |
| Focal Length | 3.4 to 119 mm | 4 to 88 mm |
| Akt - A I - (C) - I al - A - Jane A | 3.4 mm/55.8 (H) x 41.8 (V) | 4 mm/47.0 (H) x 35.2 (V) |
| Telephoto (field of view) | 119 mm/1.7 (H) x 1.3 (V) | 88 mm/4.0 (H) x 3.0 (V) |
| Total/Optical/Digital Zoom | 420x/35x/12x | 242×/22×/11× |

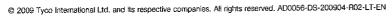
| | Common Specifications for Spec | | | |
|---|--|------------------------------|---|--|
| Operational | The second of the second control of the second second of the second second second second second second second | Mechanical | 225 (0.0.1-) | |
| Manual Pan/Tilt | 0.25°-100° per second (based on zoom position) | Height (includes base) | 205 mm (8.0 in) | |
| Preset Pan/Tilt Speed | 360° per second, maximum (Pan) and 220° per second, maximum (Tiit) | Diameter | 120 mm (4.7 in) | |
| Pan Travel | 360° continuous | Housing & Eyeball Weight | 1.09 kg (2.40 lbs) | |
| Tilt Travel | 110° | Base (with I/O Board) Weight | 0.16 kg (0.35 lbs) | |
| Pan/Tilt Accuracy | ± 0.5° | Environmental | | |
| | wayness or and activities of the control of the con | Operating Temperature | -10° to 50°C (14° to 122°F) | |
| Zoom/Focus Accuracy | ± 0.5% | Humidity | 0 to 95% RH (noncondensing) | |
| Programmable Patters/ | | Storage Temperature | -20° to 65°C (-4° to 149°F) | |
| Sequences/Areas/Privacy Zones | 16/16/16/8 | Regulatory VP SDU | | |
| Direction Indicators | Yes | Emissions | FCC: 47 CFR Part 15 Subpart E Class A CE: EN55022 Class B | |
| Auto Synchronizations | Line-Locked with Remote V-phase adjustment or Internal with Built-in sync generator | | | |
| Address Range RS-422/RS-485 Manchester SensorNet AD-UTC | 1-99 1-64 1-255 Based on number of inputs | | CE: EN61000-3-2; 3-3 AS/NZS 3548, Class A CISPR22 ICES-003 | |
| Alarm Inputs with I/O Board (indoor only) | 4 dry contacts/3.5 mA sink | Immunity | CE: EN50130-4 | |
| Alarm Outputs with I/O Board (indoor only) | 3 open collector drivers at 12 VDC, 40mA | Safety | UL 1950 CSA 22.2 No. 950 EN60950-1 IEC60950-1 | |
| Menu Languages | English, French, German, Italian, Spanish, Portuguese | | | |
| ectrical | | | IEC00930-1 | |
| Input Voltage | 18 to 30 VAC, 50/60 Hz Class 2 LPS | | | |
| Design Tolerance | 16 to 36 VAC, 50/60 Hz | | | |
| Power | 11 watts | | | |
| Power On In-Rush Current | 1.5 amps | | | |
| Allowable Drop-Out | 100 µsec | | | |
| Surge Protection Video SensorNet/Manchester | Low-capacitance Zener suppressor of 6.5 V, 1500 watts isolation transformer coupled, 2000 Vrms; PTC resettable fuse protects transformer; 9.8V/1A, 500 watts, 8/20 µsec impulse; 10kA impulse rated das tube | | | |

Product offerings and specifications are subject to change without notice. Actual products may vary from photos. Not all products include all features. Availability varies by region; contact your sales representative. Certain product names mentioned herein may be trade names and/or registered trademarks of other companies.

10kA impulse rated gas tube TVS rated at 9.8V/1A, 500 watts, 8/20 µsec impulse

TVS rated at 9.8V/1A, 500 watts, 8/20 usec impulse

TVS rated at 60 V, 250 A, 1.5 joules, 8/20 usec impulse





RS-422/RS-485 Alarm Input/Aux Outputs

Power Line