DATASHEET

CamVu 500

The CamVu500 Series is the latest addition to Dedicated Micros range of CamVu IP Cameras. Providing excellent low light, performance the CamVu500 Series can transmit and record images in real-time and is designed for Dedicated Micros next generation of video surveillance - Closed IPTV.

EXCELLENT LOW LIGHT PERFORMANCE

The CamVu500 Series uses a 1/4" CMOS progressive scan sensor that provides exceptional low light resolution (<0.2 lux @F1.2) in real-time. This performance allows colour images to be produced in dimly lit scenes.

ANALYTICS*CAPABLE*

As part of our growing range of **Analytics***Capable* products, the CamVu500 Series is able to contain the latest analytics solutions from Dedicated Micros including Object Left/Removed Detection Tripwire and Counting Tripwire, all locally hosted on the camera.

NETVU CONNECTED

With NetVu Connected products users can seamlessly integrate Video Servers, Cameras & Domes, Management Systems, mobile viewing devices and video walls together without the costly impact of significant integration time. A shared user interface helps minimise operator training whilst powerful features such as Direct configuration of PTZ Cameras and Domes from connected DVRs helps reduce installation time providing benefits to both end user and installer/integrator.

The incredible flexibility of Dedicated Micros NetVu Connected platform enables multi-environment security installations to be achieved with ease. Integration of Fixed and Mobile DVRs and Video Servers alongside products such as FireVu (for Video Smoke Detection) enable large scale solutions with several application requirements to be designed and built with ease.

MULTIPLE, SIMULTANEOUS VIDEO STREAMS

Dedicated Micros' unique Visual Signal Processor (ViSP) allows the CamVu500 Series to transmit multiple simultaneous MPEG-4, H.264 and/or JPEG images to any number of associated NetVu Connected devices for image viewing. Each stream can be tailored to suit the viewer's bandwidth requirements.

CLOSED IPTV

Dedicated Micros' award winning Closed IPTV solution combines open standard IP protocols with patent pending innovation to provide simple to install, safe and secure IP video solutions across new or existing networks.

Automatically allocating IP addresses to IP cameras by physical port, a Closed IPTV system is completely deterministic, creating firewalls and monitoring point-to-point IP connections so they cannot be hacked or intercepted. Critical to the security of a Closed IPTV system is the unique implementation of Trusted Endpoint technology; a secret signature, applied at lock down, enables endpoint devices such as IP cameras to be secure, immediately triggering a security alert should any interference be detected.

This ground breaking solution provides a very simple and secure answer to IP video, meaning that no prior knowledge of IP networking is required. Sophisticated and Dependable network security can be achieved with a single click.

FEATURES

- Colour IP Camera with excellent, real-time, low light sensitivity, 0.2 lux at F1.2
- Available in static camera, internal mini-dome or Vandal Resistant Mini-dome options
- Integrated Camera Recording and full enterprise video server within camera
- Can form part of a Closed IPTV system
- Transmission of multiple, simultaneous video streams in MPEG-4, H.264 and JPEG format enables multiple users to view video streams at the settings they require
- **Analytics***Capable* - enables analytics solutions to be deployed on your CCTV system
- Works with any DM Video Server that supports IP Streaming & Recording
- **Multi***Mode* Recording - Dynamically-switchable resolution, record-rate & compression (MPEG-4/H.264/JPEG) settings
- Web server for remote configuration of camera features
- Power over Ethernet (PoE) / 12-24Vdc & 24Vac power options
- Local analogue test monitor output for use when positioning and adjusting the camera's field of view and focus
- CMVU500 Can be used externally in a compatible housing such as a DM/2010
- **Trans***Coding* - High quality recording and simultaneous video transmission using MPEG4, JPEG or H.264 for playback
- Uses the latest Chipwrights ViSP to minimise power consumption and heat build up

NetVu CONNECTED

DEDICATED MICROS

Closed IPTV

TECHNICAL SPECIFICATION

CAMERA SPECIFICATIONS

IMAGE SENSOR
1/4" CMOS progressive scan

VIDEO PROCESSOR
SoC DSP (CW5631)

MINIMUM ILLUMINATION
0.2 lux at F1.2 at real-time

SHUTTER TIME
1/100s to 1/1s

LENS
CMVU500: C/CS with back focus adjustment ring. Direct drive DC iris via 4-pin square type socket on the side of the camera
CMVUD500/CMVUVRD500: Integrated 2.8-10mm Varifocal with DC iris, F1.2. Aspherical glass with IR corrective coating

VIDEO SPECIFICATIONS

COMPRESSION
JPEG, H.264 and MPEG-4.

MAXIMUM OUTPUT RESOLUTION
640x480 (480p)

MAXIMUM IMAGE RATE
30pps in all supported resolutions (single connection to camera)

IMAGE STREAMING
Multiple, simultaneous, individual video streams in any supported compression format, bit rate or resolution can be sent to any connected user

TRANS*CODING*
Transmit multiple simultaneous MPEG-4, H.264 and/or MJPEG recorded image streams to any number of associated NetVu Connected devices for image viewing. Each stream can be tailored to suit bandwidth requirements. Resolution and format can be dynamically changed without the need to stop and then restart the stream. This operation is carried out independently of high resolution recordings.

COMPOSITE VIDEO OUTPUT
(PAL / NTSC) live display, initially operational for 10 minutes (user configurable) to enable camera focusing / configuration. Video output can also be used as part of a media display or emergency messaging capability.

INTEGRATED CAMERA RECORDING (ICR)
ICR combines recording capability and a full enterprise video server within the camera. Record camera footage at the unit as well as any associated Video Server. An integrated Micro SD expansion port provides local recording capability whilst ATA over Ethernet (AoE) protocol provides highly-secure point-to-point transfer of video files to separate, remote, storage devices for backup and longterm archiving. Enables a tiered storage architecture that ensures no single point of failure.

IMAGE CONTROL
Camera Title, Lens Select, AWB, Electronic Iris, Exposure Level, Flip/Mirror Video, Sharpness Control

NETWORK & CONFIGURATION SPECIFICATIONS

NETWORK SUPPORT
DCCP, DHCP, HTTP, HTTPS, IPv4, SMTP, Bonjour, ICMP, DNS, NTP, TCP, UPP, UDP, ICMP, DHCP, ARP, RTP, Telnet, FTP, AoE, SNMP, ZeroConf

WEB PAGE CONFIGURATION
Simple Web page configuration will allow the following functions to be configured: Camera setup, Manual update of viewing profiles, Network and Alarm settings (CMVUVRD500 includes Audio Settings)

DIRECT CAMERA CONFIGURATION
Directly configure from the associated NetVu Connected Video Server. In addition, when used within a Closed IPTV system, default settings (such as streaming rate, resolution, aspect ratio, telemetry, lens configuration etc.) can be automatically assigned to the camera

INTEGRATION SPECIFICATIONS

APPLICATION SUPPORT
Browser: IE 5.5 / Firefox 2.0 and above
Developer: Java via Dedicated Micros SDK

NETVU OBSERVER - SEAMLESS VIDEO MANAGEMENT
Dedicated Micros NetVu ObserVer video management software allows seamless viewing and control of live and recorded images from any NetVu Connected product (IP or analogue) in a single interface. The ability to view multiple sites simultaneously makes management of any security installation efficient. The inclusion of RVRC (ARC) features such as EDP, event characterisation and report generation make NetVu ObserVer ideal for remote monitoring of multiple sites. (Supplied with Product, Apple Mac Version Available)

ALARMS & RELAYS
Video Motion Detection (VMD) & Activity Detection, Zoned alarms based on multiple inputs. On alarm actions include; Alarm Reporting, Record Profile change, Email, Relay Closure (Relay closure on models with relay outputs only)
CMVUVRD500: 2 physical alarm inputs & 1 physical relay output.

AUDIO
CMVUVRD500: 1x audio input (mono) – 3.5mm jack, 47kΩinput impedance, 1x audio ouput (mono) – 3.5mm jack, 47kΩinput impedance

GENERAL SPECIFICATIONS

ENCLOSURE
CMVU500: Zintec case, Cast Zinc lens mount, V0 ABS trim
CMVUD500: Grey ABS. Clear polycarbonate bubble
CMVUVRD500: IP66 Die cast aluminium LM25 Base, Lexan Polycarbonate Bubble

CONNECTIONS
Ethernet: 10/100 BaseT RJ45 Connector PoE
Storage: Micro SD slot for recording. Supplied with 2GB class 4 card.
CMVU500: Secondary Micro SD slot for recording
Power: Terminal Block
CMVUVRD500: Terminal Block for Alarms & Relays

MOUNTING OPTIONS
CMVU500: 1/4" 20 UNC mounts on top and bottom
CMVUD500: Ceiling, Surface (via provided fixings), 3-axis GyroView set up
CMVUVRD500: Surface (via provided fixings), 3-axis GyroView set up

MEASUREMENTS
CMVU500: 123 (L) x 60 (H) x 60 (W) (mm)
CMVUD500: 120 (L) x 120 (W) x 110 (H) (mm)
CMVUVRD500: 148 (L) x 148 (W) x 104 (H) (mm)

WEIGHT
CMVU500: 0.4kg (14oz) without lens
CMVUD500: 0.3kg (10.5oz)
CMVUVRD500: 1.18kg (41.6oz)

POWER
CMVU500: 12Vdc-24Vac/PoE, Consumption: 4.5W
CMVUD500: PoE only, Consumption: 4.5W
CMVUVRD500: 12Vdc/PoE, Consumption: 4.5W

POWER OVER ETHERNET
IEEE 802.3-2008. End span and bridging injectors supported.
Supplied with a PoE injector to allow power to be applied to the connecting Ethernet cable without the need for a PoE enabled network switch. This allows 48V power (supplied seperately) to be provided down the line to the camera on the same cable that is used for data transmission.

ENVIRONMENTAL
Operating Temperature: -10° to +50°C (14° to 122°F)
Operating Humidity: 20% to 80% relative humidity, non condensing
Storage Temperature: -10° to +70°C (14° to 158°F)
Storage Humidity: 20% to 90% relative humidity, non condensing

WARRANTY
2 Years

Model Code	Description
DM/CMVU500	¼" 480p, IP Camera, 12-24V/PoE
DM/CMVUD500	¼" 480p Indoor IP Mini-dome 2.8-10mm, PoE only
DM/CMVUVRD500	¼" 480p, Vandal Resistant IP Mini-dome ,12V/PoE

Add /N at end of pin code to enable default output and configuration to be applied for US market.

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