

# CCAW1427-LPI

High-Resolution, Autofocus Day/Night Camera with 960H Technology

**VANDERBILT**



CCAW1427-LPI

The CCAW1427-LPI is a high-resolution (700 TVL) day/night camera with built-in autofocus zoom lens with max. 22x zoom. The camera is designed for indoor use under variable lighting conditions.

All the camera settings such as white balance, exposure settings, setting of back light compensation (BLC), Line-Lock synchronisation or digital noise reduction are done via the OSD menu. Each camera can have an individual camera name assigned to it. It is possible to specify via the on screen display menu which text and which detailed information is to be displayed in the video image.

The camera offers the option to be switched from colour to BW operation by means of an external switch

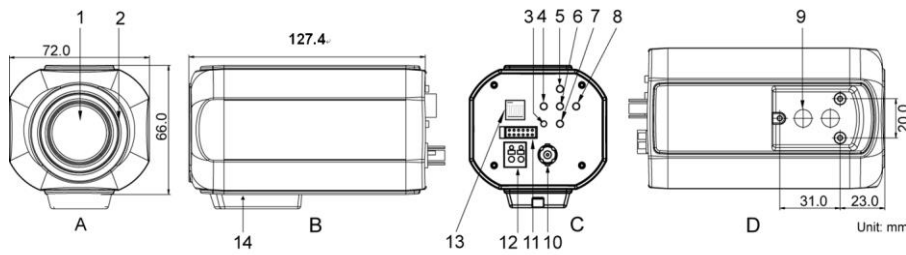
Various parameters of the camera can be superimposed in the video image.

The camera can be controlled and programmed with the Vanderbilt SCU protocol, the Bewator-Molynx protocol, or the Pelco protocol via the built-in RS485 interface.

The camera parameters can be set using the buttons on the back of the camera.

## Key features include:

- Day/Night (D/N) high-resolution
- Wide dynamic range (WDR)
- Digital noise reduction (DNR)
- Auto exposure (AE)
- Back-light compensation (BLC)
- Digital zoom (D-Zoom)
- Day/Night switching (D/N)
- Freeze
- Digital slow shutter (DSS)
- Digital image stabilizer (DIS)
- Automatic white balance (AWB)
- Automatic gain control (AGC)
- On-screen menu (OSD)
- Negative/Positive switching (NEGA/POS)
- E function (H/V flip, rotation)
- Motion detection
- Privacy masking
- Zoom preset and tour function
- Home preset



**Legend**

- 1 Zoom lens
- 2 Filter mount
- 3 Power indicator
- 4 Far button
- 5 Tele button
- 6 Menu button
- 7 Wide button
- 8 Near button
- 9 ¼-inch thread tripod mount hole
- 10 BNC connector
- 11 Connector for control interface
- 12 Power input terminal
- 13 DIP switch
- A Front view
- B Side view
- C Rear view
- D Bottom view

**Technical data**

<b>Electrical</b>	<b>CCAW1427-LPI</b>
Power requirements	12 V DC / 24 V AC, 0.6 A, 50 Hz
Power consumption	6.5 VA
<b>General</b>	
Image sensor	¼-inch SONY 960H SUPER HAD CCD II
Pixels	1028 (H) x 596 (V)
Scanning system	2:1 interlace
Scanning frequency	15,625 kHz (H), 50 Hz (V)
Synchronisation	Internal/external: line lock
Horizontal resolution	Colour: 700 TV lines
Min. Illumination	Colour: 0.1 lux B/W: 0.01 lux Slow shutter: 0.00001 lux F=1.6 (AGC on, 50 IRE video output)
Video output	1.0 Vpp (75 Ω, composite)
Signal/noise ratio	50 dB (AGC off)
<b>Functions</b>	
Wide dynamic range (WDR)	On/Off/Level (52 dB)
Back-light compensation (BLC)	Off/HLC/BLC/BLC-M
Day/night	Colour/BW/Auto
Motion detection (MD)	On/Off (Area/Sensitivity)

Slow-speed shutter	2x – 512x
Digital noise reduction (DNR)	2D/3D
Privacy masking (PM)	Max. 16 zones, mosaic function
White balance (WB)	AWB/WAWB/Indoor/Outdoor/Manual/CRS (Colour Rolling Suppression)
Auto exposure (AE)	Auto1/Auto2/Shutter Priority/Manual
Automatic gain control (AGC)	MIN/LOW/MID/HIGH (max. 30 dB)
Shutter speed	Normal: 1/100000 s
Title	A – Z / 0 – 9
Display	On/Off/Push On (DISP1/DISP2)
Brightness	Adjustable in steps from 10 – 50
Sharpness	Adjustable in steps from 0 – 15
Zoom presets	10
Zoom tour	1 tour / 10 presets
Alarm mode	On/Off/Dwell Time
Remote configuration	RS-232: Vanderbilt B RS-485: Vanderbilt S; Molynx; Pelco D, P AD Key
Bit rate	2400/4800/9600/19200
Camera ID	1 – 255
Effect	Sharpness, Nega/Posi, D-FLIP, Freeze, HI-RES, 2-3 DNR
Home preset	Off/Home Preset Select/Dwell Time
<b>Lens</b>	
Focus mode	Auto/Manual/Push AF
Distance	0.1 m/1.0 m/1.5 m/2.5 m/6.0 m
Total zoom	22x optical zoom, 16x digital zoom (video AF)
Focal length	3.9 – 85.8 mm
Aperture	F1.6 (wide-angle) – F3.7 (tele)

Angle of view	Horizontal: 49.5° (wide-angle) – 2.6° (tele)
<b>Connections and environmental conditions</b>	
Power input	2-pin connection terminal
Video output	BNC connector / TP output
Environmental operating temperature	-10 to +50 °C
Relative humidity	0 – 96% (non-condensing)
Storage temperature	-20 to +60 °C
Dimensions (W x H x D)	72 x 66 x 127.4 mm
Weight	0.40 kg
<b>TP output</b>	
Video output	Adjustable: 2.0 Vpp, 2.6 Vpp, 3.2 Vpp
Frequency accentuation	Adjustable: 0 dB, 6 dB, 12 dB

## Details for ordering

Type	Part no.	Designation	Weight*
CCAW1427-LPI	V54561-C115-A100	¼-inch Camera D/N WD AF	0.4 kg

