

# 42RTH 42-inch High-performance LCD Monitor

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Invented for life



- ▶ 42 in. wide screen (16:9) LCD display
- ▶ 1920 x 1080 resolution (Full HD)
- ▶ Contrast ratio: 800:1
- ▶ 3-D comb filter and de-interlace circuitry
- ▶ Picture-in-Picture (PIP) and Picture-and-Picture (PAP)

The 42RTH is a 42-inch, high-resolution color monitor that is ideal for use with both digital video recorders (DVR) and PC applications. The monitor features a color liquid crystal display (LCD) flat screen panel with horizontal and vertical viewing angles of 178°, which provides comfortable, clear viewing whether you place it on a desktop or mount it to a wall. Additionally, it has been designed with a unique automatic switching capability to show the video with the highest priority.

## Functions

### Excellent image quality

The 42RTH monitor automatically adapts to the input resolution of the incoming video signal (up to 1920 x 1080 pixels). The monitor's analog RGB input easily accommodates the widespread use of PCs in today's security surveillance systems. Its high contrast ratio (800:1) and high brightness rating (500 cd/m<sup>2</sup>) offer excellent color accuracy and imaging for easier viewing and interpretation of images. The panel refreshes every eight milliseconds, so you get crisp, clear images with less smearing – and less image “ghosting” in fast-motion video. Additionally, it has been designed for

security applications and improves the functioning of any security equipment by using alarms to switch and display priority video.

### Key benefits of LCD monitors

Long-life fluorescent backlights help avoid luminance degradation on the LCD monitor – so it easily maintains its high brightness level over time. The High Definition LCD panel allows the user to see video details at a level impossible on CRT monitors. The high brightness and resolution allow viewing with reduced eyestrain and fatigue.

### Additional advantages

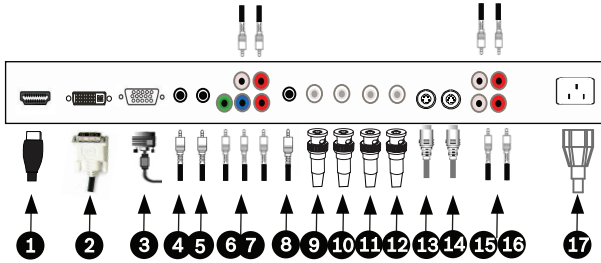
The 42RTH also features:

- Low power consumption.
- Automatic adaptation to fluctuating electricity loads while protecting your circuitry.
- Standard 130 mm mounting holes to easily accommodate a range of wall mounts.
- User-friendly, on-screen menus and front panel controls for adjusting monitor display parameters to your specific preferences.

**Certifications and approvals**

Electromagnetic Compatibility (EMC)	Complies with FCC Part 15, ICES-003, and CE regulations
Product Safety	Complies with CE regulations, UL, CSA, EN, and IEC standards

**Installation/configuration notes**



Port/Connector		Port/Connector
1 HDMI In	1 0	AV 1 Out (BNC)
2 DVI In	1 1	AV 2 In (Video 2 BNC)
3 RGB In	1 2	AV 2 Out (BNC)
4 PC Stereo In	1 3	S-video In
5 Audio Out	1 4	S-video Out
6 Component Y, Pb, Pr In	1 5	AV 2 Audio L/R In
7 Component Audio L/R In	1 6	AV 1, S-video Audio L/R In
8 Trigger Input (mini-stereo plug)	1 7	AC Power In
9 AV 1 In (Video 1 BNC)		

**Technical specifications**

**Electrical**

Rated Voltage	100 to 230 VAC, 50/60 Hz
Voltage Range	90 to 264 VAC, 50/60Hz
Power at Rated Voltage	260 W operation 14 W standby

LCD Panel	Active Matrix TFT LCD
Screen Size (H x V)	930.3 x 523 mm (36.6 x 20.6 in.)
Viewable Picture Area	42 in. (106.7 cm) measured diagonally
Pixel Pitch (H x V)	0.4845 x 0.4845 mm (0.019 x 0.019 in.)
Resolution	1920 x 1080 pixels
Aspect Ratio	16:9
Display Colors	8-bit interface; 16.7 million colors
Response Time	< 8 ms (G to G)
Backlight	Eighteen (18) cold cathode fluorescent tubes, rated life 50,000 hours

**Optical Characteristics**

Luminance	500 cd/m <sup>2</sup> , anti-glare, hard-coating (3H) treatment
Contrast Ratio (CR)	800:1
Viewing Angle	178° horizontal, 178° vertical

**Input Signal**

Video	Two (2) inputs: 1.0 Vp-p (0.5–1.5 Vp-p), automatic switching from 75Ω unbalanced termination to Hi-Z with passive loop-through operation
S-Video	0.7 Vp-p (Y-signal), 0.3 Vp-p (C-signal), 75Ω termination
Component	Y, Pb, Pr, Sound L/R
Digital Inputs	DVI D and HDMI
Analog Input	RGB
Audio Output	Speakers: two (2), 7 W

**Controls**

Front Panel	Push-buttons
Source	Selects input
Menu	Selects on-screen display (OSD) up cursor, down cursor/auto adjust, left cursor, right cursor
Power	On/Off

**On-Screen Display**

RGB	Custom, Picture/Sound, PIP, and Setup menus
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Indicators		
LED	Power On (green) Standby/Suspend/Active Off (flashing red) Unsupported Mode (green) Power Off (red)	
HDMI/DVI/RGB Inputs		
Analog RGB	0.7 Vp-p (0.5–1 Vrms)	
Picture-in-Picture Picture-and-Picture	Video 1, Video 2, or S-video input may be inserted into the RGB/DVI/HDMI display	
DVI/RGB Timing Modes	Resolution	V-freq (Hz)
	640 x 480	60, 72, 75
	800 x 600	60, 72, 75
	1024 x 768	60, 70, 75
	1280 x 1024	60, 75
	1366 x 768	60
	1920 x 1080	60
Component Timing	Resolution	V-freq (Hz)
	640 x 480 (480i)	60
	720 x 576 (576i)	50
	640 x 480 (480P)	60
	720 x 576 (576P)	50
	1280 x 720 (720P)	50, 60
	1920 x 1080 (1080i)	50, 60
	1920 x 1080 (1080P)	50, 60
HDMI Timing	Resolution	V-freq (Hz)
	640 x 480 (480P)	60
	720 x 576 (576P)	50
	1280 x 720 (720P)	50, 60
	1920 x 1080 (1080i)	50, 60
	1920 x 1080 (1080P)	50, 60
Audio Input	1.0 V line level, stereo	
Trigger Input	Normally Open (N/O) Normally Closed (N/C) High: 1.7-5 VDC Low: 0-.7 VDC	
Audio Output	Loop-through line level (PC only) Speakers: two (2), 7 W	
Connectors		
Video	Four (4) BNC types: (2 in, 2 out)	
RGB	One (1) 15-pin D-sub	

Y/C (S-Video)	Two (2) (1 in, 1 out)
Component	Y, Pb, Pr
Audio	Four (4) RCA type (2 stereo inputs) One (1) PC stereo input One (1) looping output, 1/8 in. mini phono plug
DVI-D/HDMI	One (1)/ One (1)
Trigger	One (1) 3.5 mm mini phone plug or (1) 3.5 mm mini-stereo plug
Power Cord	One (1) 3-wire with a grounded plug, 1.8 m (6 ft) long (European/Continental or U.S. plug type)

### Mechanical

Cabinet	Material: ABS Finish: black Wall mounting compatible with standard bracket, (130 mm x 130 mm) x 634 mm, M8 x 16 mm screws
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### Dimensions

Monitor with Stand (W x H x D)	1063 x 730 x 304mm (41.9 x 28.7 x 12 in.)
Monitor Only (W x H x D)	1063 x 655 x 120 mm (41.9 x 25.9 x 4.7 in.)
Weight	Monitor with base: 35 kg (77.2 lbs) Monitor only: 31 kg (68.3 lbs)

### Environmental

Operating Temperature	10°C to 40°C (50°F to 104°F)
Storage Temperature	-20°C to 50°C (-4°F to 122°F)
Humidity	Max. 90%, non-condensing

### Ordering information

#### 42RTH 42-inch High-performance LCD Monitor

42-inch color LCD monitor, 1920 x 1080 resolution, VGA, DVI, HDMI, CVBS, audio, 120/230 VAC, 50/60 HZ  
Order number **42RTH**

#### Accessories

##### ST660 Universal Tilt Wall Mount

Tilt wall mount for an LCD 37 in. to 60 in. monitor, black  
Order number **ST660**

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