

TeleEye III

Transmission Unit

VT3-4B

VT3-4C

VT3-4BA

VT3-4CA

User Guide

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SECTION 1

INTRODUCTION

TeleEye III is an advanced *Video Monitoring System*. The transmission unit is especially designed for monitoring medium sized firm, factory and warehouse. Four models are available to suit for different applications as follows.

- **VT3-4B:** Transmitting B/W video frames.
- **VT3-4C:** Transmitting color video frames.
- **VT3-4BA:** Transmitting B/W video frames with 4 alarm inputs and 1 output switch supported.
- **VT3-4CA:** Transmitting color video frames with 4 alarm inputs and 1 output switch supported.

The hardware design of the four models above are the same. The alarm and switch function provided for the VT3-4B and VTC-4C will be permanently disabled in software but the function provided for the VTC3-4BA and VTC3-4CA will be permanently enabled in software. In short, there is only the software difference among the models above.

Features

- Transmits high quality videos of multiple CCTV cameras.
- Achieves fast video update by using an interframe image compression.
- Password protection on connections.
- Built-in real time clock.
- Multiple alarm inputs with independent NC / NO trigger contacts.
- Remote control through 1 relay switch.

About the Reception Software

The *TeleWin Reception Software* is a Win95/98 application program (IBM or compatible PC). It implements the system controls as well as image decoding of the *TeleEye III* system. The compressed data are decoded and displayed through the PC monitor.

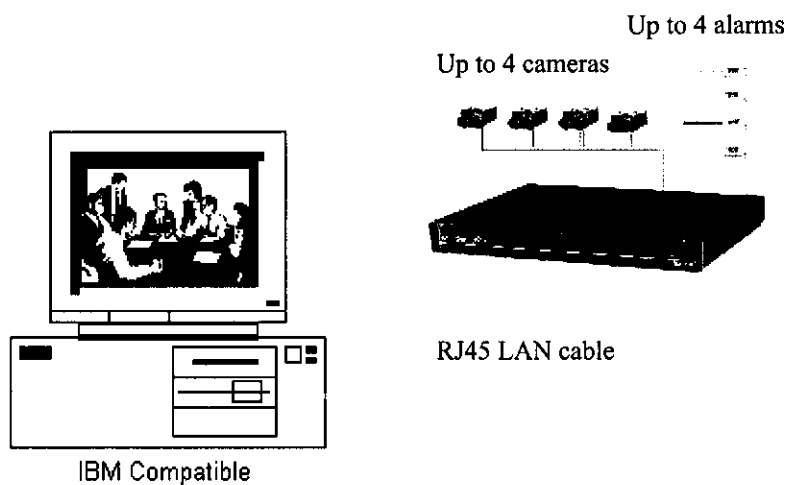
INSTALLING *TeleEye III*

What You Need

To install and operate the *TeleEye III* transmission unit, the following items are required:

- *TeleEye III Transmission Unit*
The image transmitter supports up to 4 video sources in all PAL or NTSC format.
- *CCD Camera*
Color / monochrome, PAL or NTSC.
- *Coaxial Cable (RG-59 recommended)*
It is used to connect the video output of the CCD camera to the video input of *TeleEye III* transmission unit.
- *RJ45 LAN Cable*
It is used to connect the *TeleEye III* transmission unit to Ethernet socket of the PC.
- *Adaptor*
A d.c. 12V Adaptor.

System Connections



Recommended Setup Procedures:

- Step 1:** Plug one end of the RJ45 LAN cable into the socket marked **Ethernet** on the *TeleEye III* transmitter, then plug the other end to the Ethernet socket of the computer.
- Step 2:** Plug one end of the *BNC* cable into the **VIDEO OUTPUT** of the *CCD* camera, then plug the other end to the *TeleEye III*'s **VIDEO INPUT** connector (**CH1** preferred)
- If more than one camera, plug the *BNC* cable sequentially to the **CH2** to **CH4** of the *TeleEye III*.
- Step 3:** Plug one end of the Alarm & SW cable into the DB-9 male connector of the alarm sensor box and plug the other end of the cable to the DB-9 female connector of the *TeleEye III* marked **Alarm & SW**.
- Step 4:** Plug the round end of the d.c. adaptor into the socket marked **POWER** on the *TeleEye III* transmitter. (Note: transmitter can support 9V d.c. to 12V d.c. supply voltage)
- Step 5:** Plug the adaptor to a.c. power source for switching on the *TeleEye III*. The *TeleEye III*'s LED should light up.

Software Installation

Before setting up **TeleWin**, please change the video setting to *800 x 600 true colour* or *16-bit high colour* in Win95/98's **Display Properties**.

TeleWin software CD contains an installation program, **SETUP.EXE**. Please use this program to setup the necessary files into the hard disk of the reception unit.

Once you have completed the following installation procedure, you can run **TeleWin** directly from your hard disk.

Connecting **TeleWin** to **TeleEye III**

Step 1: Make sure your video setting of Win95/98 environment is *800 x 600 true colour* or *800 x 600 16-bit High Colour*. To start **TeleWin Reception Software**, click on the **Start** button on the taskbar, then choose **Programs -> TeleEye III -> TeleEye III WRS3-AD**.

Step 2: To connect to the **TeleEye III**, click **Connect** under the **Connection** menu or the **Connect** button.

Step 3: In the **Connect Using** box, select **TCP/IP** and enter the IP address as **210.177.50.155**. This allows the **TeleWin** to communicate with the **TeleEye III** through the RJ45 LAN cable.

Step 4: Fill in the password for connection. The default password is **000000**.

Step 5: You may now click the **connect** button to make connection.

You may disconnect the connection by selecting **Disconnect** on the **Connections** menu or clicking the **Disconnect** button.

You may reset the alarms by clicking **Reset Alarm** under the **Alarm** menu or with the **Reset Alarm** button.

Trouble Shooting:

If you encounter problem in connecting the **TeleEye III** transmitter successfully. Check the following.

Please make sure your PC has a network card and is configured with network settings. Go to **Control Panel->Network** to enter the following network settings.

- IP = 210.177.50.154
- Subnet mask = 255.255.255.0
- Gateway = 210.177.50.158

Transmitter IP 210.177.50.155

Pin Definitions of the crossover RJ45 CABLE

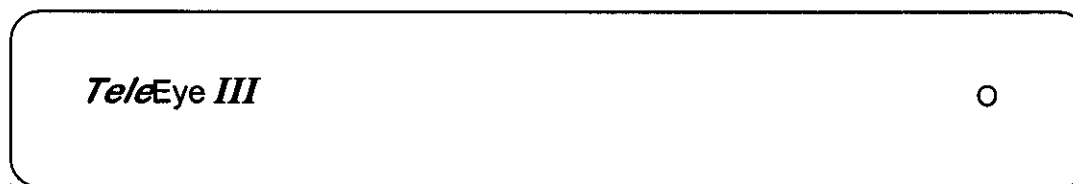
When linking *TeleEye III* to PC, you need the crossover RJ45-to-RJ45 cable. Table F-2 lists the definitions for the crossover RJ45-to-RJ45 cable.

Terminal A			Terminal B		
White orange	1	TD+	3	RD+	White green
Orange	2	TD-	6	RD-	Green
White green	3	RD+	1	TD+	White orange
White blue	4	BI_1+ (Not used by 10BaseT)	7	BI_2+ (Not used by 10BaseT)	White brown
Blue	5	BI_1- (Not used by 10BaseT)	8	BI_2- (Not used by 10BaseT)	Brown
Green	6	RD-	2	TD-	Orange
White brown	7	BI_2+ (Not used by 10BaseT)	4	BI_1+ (Not used by 10BaseT)	White blue
Brown	8	BI_2- (Not used by 10BaseT)	5	BI_1- (Not used by 10BaseT)	Blue

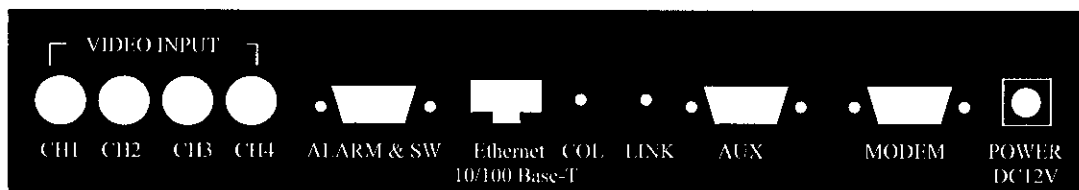
Table F-2: Crossover RJ45-to-RJ45 cable definitions.

Transmission Unit

The panels of the *TeleEye III* transmission unit are shown below:



Front Panel



Rear Panel

Functional Description

VIDEO IN Connectors (CH1 – CH4)

- Standard BNC connectors for the video sources.
- A composite video signal should be supplied to these connectors.

ALARM & SW Connector

- This connector is used for connecting 1 remote control switches and 4 alarm inputs.
- All alarm channels have the same priority.

Ethernet Socket

- The Ethernet socket is used for making connection to the Ethernet socket of PC.

AUX and MODEM Connector

- These two connectors are used for future development.

Power Socket

- A 2.1mm DC power jack is used for the connection to the power supply (9V-12V DC)

SECTION 3

SPECIFICATIONS

MODEL	VT3-4B	VT3-4C	VT3-4BA	VT3-4CA
VIDEO				
STANDARD	(P): PAL/CCIR, 625 LINES, 50 FIELDS PER SECOND (N): NTSC/EIA, 525 LINES, 60 FIELDS PER SECOND			
INTERFACE	4 CHANNELS, 1.0V _{pp} COMPOSITE, BNC WITH 75Ω TERMINATION			
FRAME CAPTURE				
RESOLUTION (H x V)	320 x 240 PIXELS			
GRAY LEVELS	256			
COLORS	-	16 MILLION	-	16 MILLION
SCALEABLE ADAPTIVE IMAGE COMPRESSION				
ALARM				
INPUT	-		4 INDEPENDENT CHANNELS (NC / NO)	
OUTPUT	-		1 CHANNEL, DRY CONTACT CONTACT RATING: 24Vac, 2A RESISTIVE LOAD : 24Vdc, 2A	
INTERFACE				
TYPE	RJ45 CONNECTOR			
RATE	10/100 Mbps			
PROTOCOL	TCP/IP			
POWER REQUIREMENT				
INPUT VOLTAGE	9 - 12V DC			
POWER CONSUMPTION	12W (MAX.)			
ENVIRONMENT CONDITIONS				
AMBIENT TEMPERATURE	+5°C TO +40°C (40°C TO 104°F)			
RELATIVE HUMIDITY	20% TO 85%, NO CONDENSATION			
MECHANICAL DESIGN				
DIMENSION (W x D x H)	254mm x 203mm x 38mm			
COLOR	SILVER			
WEIGHT	1.3kg			

FCC Statement on Class B

WARNING

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Shielded cables must be used with this unit to ensure compliance with the Class B FCC limits.