

ViZion Installation Guide

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Begin by taking an inventory of the required equipment

- DR Unit
- □ Acquisition PC

Inventory: DR Unit

1. Identify DR Unit.

DR Unit will be shipped as indicated in Figure 1.0.

•Each box contains (1) complete DR Unit to coordinate with *either* a wall or table Bucky. Therefore, if *both* a wall and table Bucky will be assembled, there will be 2 boxes shipped, (1) DR unit for each Bucky assembly.





2. Open the box(es)



3. Verify contents of box(es)

Notice each box will contain 3 sub-boxes upon opening. See Figure 1.1 below.



4. Familiarize yourself with the equipment and supplies in each box.





Figure 1.2 - DR Panel



Figure 1.3 - Panel Power Supply plus Power Supply Cables

•This black box is the power supply for the panel and its associated power supply cables arrive already attached.



Synchronization Cables





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Figure 1.4 – Synchronization Cables, Network Cable, Power Supply Cable plus CD

♦Network Cable (Ethernet CAT5 Cable) – WHITE





♦ Synchronization Cable – GREY





♦ Power Supply Cable (for black power supply box) – BLACK



IMPORTANT NOTE: The Power Supply Cable in Box #3 has a *Euro* plug, as shown in Figure 1.7.



A *U.S. Standard* Power Supply Cable for the Power Supply will be included in your shipment.



Samsung CD (included for your reference only – no need for installation)



Figure 1.8

NOTE: Figure 1.9 is the underside of the panel. Notice the (4) mounting holes for bolting purposes. If your setup requires the panel to be mounted to an enclosure, we recommend mounting the panel <u>BEFORE</u> running the cables.



Figure 1.9

Inventory: Acquisition PC

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1. Check to make sure you have the Acquisition PC and its power supply.





Hardware Setup

1. Organize your Hardware.



Figure 2.0

2. Plug in the Synchronization Cable (Shown in Figure 2.1)



Figure 2.1

3. CHECK THE POWER SUPPLY INPUT VOLTAGE SELECTOR BEFORE PROCEEDING! You may need to switch it from 230 VAC to 115VAC operation, as

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shown in Figure 2.2.



Figure 2.2

4. Plug in the two power supply connections (Shown in Figure 2.3)





Figure 2.3





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5. Connect the DR Unit and the Acquisition PC together, directly, using a *single network cable*. (Figure 2.4)

Figure 2.4

Please continue to the next section titled Understanding the
Synchronization Cable.

Understanding the Synchronization Cable



ONLY QUALIFIED SERVICE PERSONNEL SHOULD ATTEMPT THESE STEPS

The **Synchronization Cable** connects the Generator to the Panel for the purpose of communication, sending signals to the panel for <u>what</u> function(s) to perform and <u>when</u>.

The Synchronization Cable is necessary to:

- 1. Prepare the panel for exposure
- 2. Create a mechanism for actual exposure to be delayed.

Please review the available synchronization cable (signal wires) as shown in Figure 3.0 and the referenced descriptions in Table 3.0 to become familiar with their orientation and description.



PIN No.	PIN Description
1	SPARE (Brown)
2	SPARE (Yellow)
3	READY DONE (Green)
4	READY DONE COM (Blue)
5	READY IN (Black)
6	CANCEL IN (White)
7	12-24 VDC (Red)
Table 3.0	





2. Make the appropriate connections from the synchronization cable to the generator's Bucky interface, as shown in *Table 3.1* and as indicated in *Figure 3.1- Connection Diagram* below.

SignalLabelCable ColorInput/OutputREADY IN12V ~ 24 VDCREDINPUTREADY INREADY INBLACKINPUTREADY DONEREADY DONEGREENOUTPUTREADY DONEREADY DONE COMBLUEOUTPUT				
READY IN12V~24 VDCREDINPUTREADY INREADY INBLACKINPUTREADY DONEREADY DONEGREENOUTPUTREADY DONEREADY DONE COMBLUEOUTPUT	Signal	Label	Cable Color	Input/Output
READY INREADY INBLACKINPUTREADY DONEREADY DONEGREENOUTPUTREADY DONEREADY DONE COMBLUEOUTPUT	READY IN	12V ~ 24 VDC	RED	INPUT
READY DONEREADY DONEGREENOUTPUTREADY DONEREADY DONE COMBLUEOUTPUT	READY IN	READY IN	BLACK	INPUT
READY DONE READY DONE COM BLUE OUTPUT	READY DONE	READY DONE	GREEN	OUTPUT
	READY DONE	READY DONE COM	BLUE	OUTPUT

Table 3.1



Figure 3.1 – Connection Diagram





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Review Figure 3.2 – Signal Timing Diagram below, noting that via the standard Bucky interface, the Detector will induce a delay during EXPOSE, before allowing the x-ray tube to fire. This delay is typically lasts between ½ second to 1 second. THIS DELAY IS NEEDED TO ALLOW THE DETECTOR TO BECOME READY.







Please refer to the **ViZion Install Verification Guide** to confirm successful installation as well as noting the most common installation issues and providing troubleshooting techniques. Once the installation has been verified using the **ViZion Install Verification Guide**, please proceed to calibration.

For instructions on how to calibrate your ViZion DR, please refer to the ViZion Calibration Guide.

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