CAPTURE-HD & CAPTURE-HD-PRO
Capture HD® High-Definition Capture Recorder

1 Included Items

The following items are included with the CAPTURE-HD and CAPTURE-HD-PRO: (herein known as Capture recorder):

- One Multimedia Memory Card, SDHC™ (16 GB)
- One power pack: 12 volt dc Power Pack, Universal, (removable power cord included)
- One BNC to RCA adapter
- One 3-pin and two 5-pin single row interface connectors
- Two rack mount brackets
- Eight screws to attach rack mount brackets
- One 3-foot (~0.9 meter) stereo audio cable with RCA connectors

The following items are available separately:

- CAM-IFB-100, Camera for Capture HD®
- CAM-IPTZ-101, PTZ Camera for Capture HD
- CAPTURE-TPMC-4SM, Touch Screen Controller for CAPTURE-HD
- CBL Series, Crestron® Certified Interface Cables
- CEN-FUSION-RVS-R310 Pre-configured Fusion RV® Server System
- Fusion RV (SW-FUSION-RV) Remote Asset Management Software
- MP-FS100_PAK, FreeSpeech® Single-Channel Wireless Mic System Package
- MP-FS200_PAK, FreeSpeech Dual-Channel Wireless Mic System Package

2 Initial Hookup

1. Insert the included SDHC card into the **MEMORY** slot, contacts facing down.
2. If the installation requires connection to a network, plug a network cable into the **LAN** port.
3. Connect the **G** (ground) terminal to earth ground.
4. Connect the supplied power supply to the **12V 5.0A** port.

NOTE: Do not apply power at this time.

Memory Card   LAN   DC Power   Ground
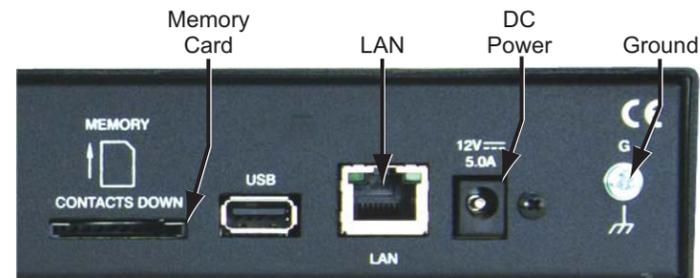
3 Connect Speech Input

Connect the output of the microphone system to one of the **SPEECH IN** connectors. (The RCA jack provides for unbalanced input; the 3-pin connector provides for balanced input. Use only one input at a time.)

Crestron recommends using the FreeSpeech wireless mic system. To do so, simply connect an RCA cable from the white **LINE OUT** connector on the rear of the FreeSpeech receiver to the white unbalanced input connector on the Capture recorder.

Unbalanced Input   Balanced Input

MP-FS-RX1 FreeSpeech System

4 Connect Camera

Connect the camera using the **CAMERA IN COMPOSITE** or **3G-SDI** input. (The **3G-SDI** input is available only on the CAPTURE-HD-PRO.)
A BNC to RCA adaptor is included for use with the **COMPOSITE** input, if needed.

CAPTURE-HD-PRO Only
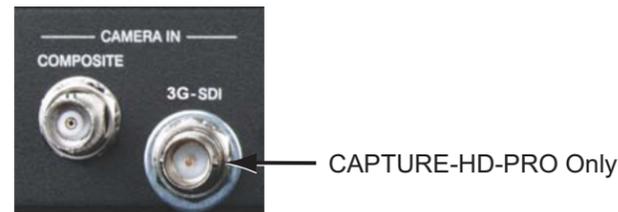
The Capture recorder is pre-configured to select the **3G-SDI** source, if present, otherwise it selects the **COMPOSITE** input.
Crestron recommends the following two Crestron composite cameras:

CAM-IFB-100 (Sony model SNC-CH110)   *CAM-IPTZ-101 (Canon model VB-C300)**

* The camera is supplied with an 8" (203 mm) 3.5 mm monaural to female BNC adapter cable.

5 Connect Content Source

Connect the content source (typically a PC or laptop) to one of the **CONTENT IN** inputs on the Capture recorder. Both **HDMI** and **RGBHV** (VGA) are provided.

The Capture recorder is pre-configured to automatically select the HDMI® source, if present, otherwise it selects the RGBHV source.
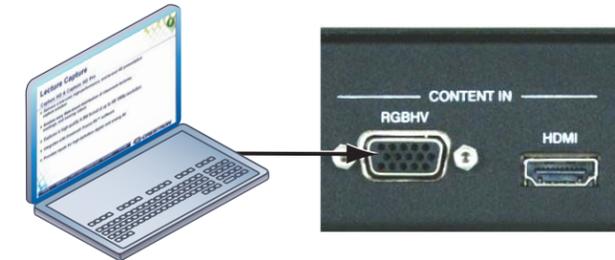
6 Connect Output

Connect the output. The **LOOP OUT RGBHV** port can be used to route the content from the RGBHV input directly to a display or projector, allowing the Capture recorder to fit into an existing system seamlessly.

Projector

Typical Image on RGBHV or HDMI Output
Content Only

Typical PIP Image on HDMI Output
Content
Camera
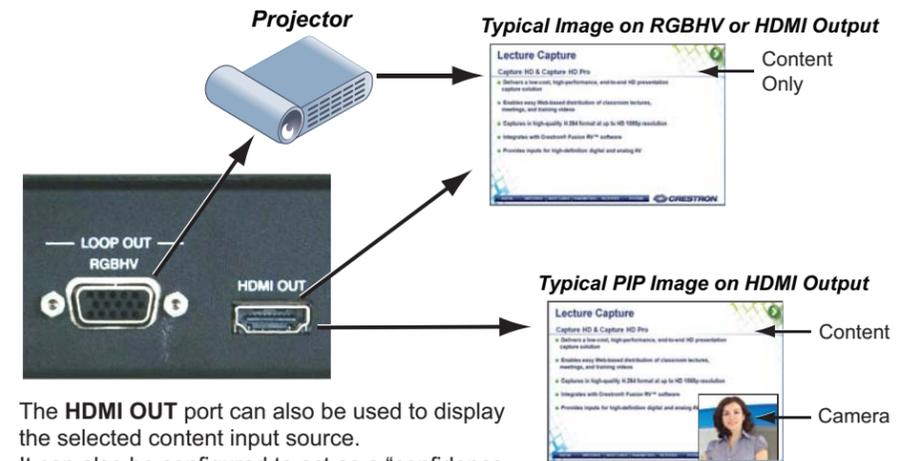
The **HDMI OUT** port can also be used to display the selected content input source.
It can also be configured to act as a "confidence monitor" showing exactly what is being recorded.

7 Connect Power

Plug the power supply line cord into a standard 110 -120 Vac power source. The Capture recorder goes through an initialization sequence that takes approximately 90 seconds. When the initialization process is complete, the front panel display is similar to the following:

Press REC when ready
2013-03-13 16:25
No meetings

For details, refer to the **CAPTURE-HD & CAPTURE-HD-PRO** Operations Guide, Doc. 7233.

QUICKSTART DOC. 7234E (2031322)   07.13

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8 Operation Overview

The Capture recorder has two options for storage: local storage and storage on a remote server.

- **Local Storage**

  For local storage, the device records a presentation either on the provided SDHC card or on a USB storage device inserted in the front or rear USB port. (Either storage device must be formatted for FAT32.) Before starting, the front panel controls are used to specify where the file is to be saved (the default is the SDHC card).

  When the presentation is about to begin, the presenter simply presses the **REC** button; when finished, presses **STOP**; and the video file (example: CAPTURE-HD61ecf4_2011-10-17_09_43_29.ts) is saved in the specified location. After the front panel indicates that the recording is done, the media can be removed, if desired, and made available for other presentations.

- **Storing on Remote Server**

  The presentation can also be saved to local media, and then uploaded via FTP to a remote server. Distribution is then controlled by FTP settings from the SIMPL Windows symbol, the optional CAPTURE-TPMC-4SM touch screen, or Fusion RV.

  When the Capture recorder is used in conjunction with Fusion RV, the presentation is automatically transferred via FTP to a "Watch" directory that Fusion RV monitors. When Fusion RV detects the new file, it takes the file and processes it for distribution.

9 Basic Configuration for Local Storage

From the initial display shown in Section 7 , use the buttons adjacent to the left, right, up, and down arrow symbols on the front panel to navigate the various menus and options. The **SELECT** button accepts the displayed menu option or value; the **HOME** button returns the display to the initial display, shown below; the **BACK** button always returns the display to the previous screen.

For example, to use a USB storage device instead of the default supplied SDHC card, install a USB device (which must be formatted for FAT32, with a minimum storage capacity of 4 GB) into the front USB port, and perform the following steps:

Initial Display

Press REC when ready
No meetings
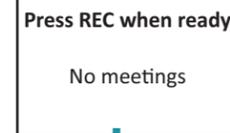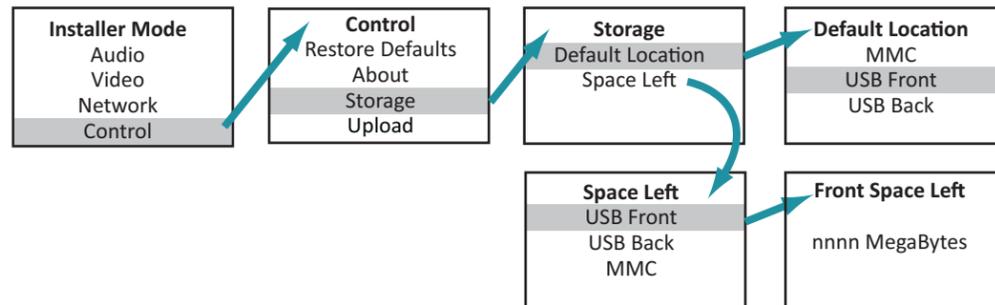
1. From the initial display, press the **BACK** button to display the "Installer Mode" menu, then continue navigating to the "Default Location" menu as illustrated below.

2. Press the down button to move down to *USB Front* and press the **SELECT** button to select that drive as the preferred storage location. The screen returns to the "Storage" menu. Move down to *Space Left* and press **SELECT.** The screen displays the "Space Left" menu. Move to *USB Front* and press **SELECT** again. The screen displays "Front Space Left" and shows the amount of space available (depicted by 'nnnn'), in megabytes.

"Installer Mode" Menu

Installer Mode
Audio
Video
Network
Control

Control
Restore Defaults
About
Storage
Upload

Storage
Default Location
Space Left

Default Location
MMC
USB Front
USB Back

Space Left
USB Front
USB Back
MMC

Front Space Left
nnnn MegaBytes

10 Typical Hookup Arrangement

Content Audio

Content

Laptop

Projector

SPEECH IN — CONTENT AUDIO IN — CAMERA IN COMPOSITE — CONTENT IN RGBHV HDMI LOOP OUT RGBHV HDMI OUT MEMORY CONTACTS DOWN USB 12V 5.0A G LAN

CRESTRON ELECTRONICS INC., ROCKLEIGH, NJ 07647 USA

FreeSpeech MP-FS-RX1

FreeSpeech MP-FS-RX1

CAM-IFB-100 (Sony model SNC-CH110)*

CEN-SW-POE-5

CAPTURE-TPMC-4SM

48 Vdc Power Supply

100-240 Vac

12 Vdc

12 Vdc Power Supply

100-240 Vac

* The CAM-IPTZ-101 (Canon model VB-C300) is also available for composite input.

11 Ethernet Setup

Establish Ethernet communication between the devices in the CaptureLiveHD™ system as follows:

1. Using the CAPTURE-TPMC-4SM "Ethernet Setup" screens, select **Control System Settings** and enter the IP address (or hostname) of the CAPTURE-HD or CAPTURE-HD-PRO device. The Capture recorder's IP address can be found from its front panel display by entering the *Network* menu, then the *Status* menu. Enter **03** as the CIP ID.

2. After entering the Capture recorder's IP address and CIP ID, exit the setup screens (touch **Back** twice to return to the "Panel Setup Options" menu, touch **Save & Exit**). The panel goes through an initialization process and displays a "Start" screen, ready to record a new presentation session.

For details, refer to the **CAPTURE-HD & CAPTURE-HD-PRO** Operations Guide, Doc. 7233.

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