

Manufacturer of Quality Medical Products

FSN IPS1000 Image Router and Tablet Programing and Installation Guide for MDS



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IDI IPS1000 Key Components

Installers will interface with 4 key components when installing MDS IPS1000 Integration System. **Key Interfaces**

Tablet Dashboard Page – Routing I/O access Tablets I/O page – Naming & Activation Router - Physical connection Monitors – Image display



Access the Dashboard from Login Page Select Admin to Dashboard Page

 Tablet Dashboard
 Primary Routing of Images, Swap, PIP and Color Correction
1 3 Dot Access - (I/O access) Source - (4 active, 6 inactive sources) Destination - (2 active, 3 inactive destinations) Image Correction – PIP, Color, Contrast, Position



I/O mimics the Router's rear configuration for input and output location and type

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Identify

activate/de-

activate, set

destination

IDI IPS 1000 Dashboard Routing

Dashboard Routing of Images from Sources to Destination

General

Routing

- From the Log In Page select Select Admin to access the Dashboard page to begin routing of images.
- On the Dashboard page, Green represents active Input Sources. The IPS1000 can have up to 10 Input Sources in this area but Programing can hide those sources not "active."
- The Blue Section represents active Destination Monitors. The IPS1000 can have up to 5 Monitors (4 are used on the MDS) and those not used can be hidden if not relevant.
- The Orange button will activate the 4 step PIP function and cycle the image size from single, PIP overlay to split screen.
- The Gray buttons adjust color, contrast, swap PIP locations and freeze one image on the monitor (hold reference).
- The dots in the upper right corner ()allow the User access to the I/O and the Programing area.

To Route an image, select the Input Source (green) and then the Destination Monitor (blue)

General Layout

1. Select "Admin" to Access the Dashboard Page



	Function
А	Active video sources to select from
В	Available monitors Monitor #1 and Monitor #2 to send images to
С	To define monitor layout - Single, PIP, side-by-side
D	Image adjustment including location, color, zoom and PIP overlay orientation selection
E	Swaps the PIP position with the primary image
F	Freezes the active image on the monitor selected
G	3 Dot Menu to I/O and other Screens

IDI IPS 1000 I/O Access

I/O Access and Set Up

Admin > Dashboard > 3 Dot



General

- The Tablets I/O menu allows for independent optimization of color, size, resolution, name, active/non-active, and copying of clinical image streams.
- Access to the I/O page is available through the Dashboard Page via the 3 dot icon (located in the upper right hand corner).
- Input settings can be corrected by selecting the Output Destination Card on the Dashboard Page.



Example: Editing Monitor Destination Page



Destination configuration page (Next Page)

Naming Outputs and Inputs, Resolution, Aspect, Copy or Activate

General

Output/Input Destinations and Sources

- Selecting the Output/Input Card will produce a configuration page.
- Selecting the Name in the "Page" will produce a virtual keyboard to type in the new name. Be sure to keep the inputs "type identifier" (i.e. SDI, or DVI 1) in the description for service identification.
- The Preview Monitors each have their own Output Card set to 720p and will be a copy of their corresponding Primary Monitor.
- You may hide Monitor images or input locations that aren't active to reduce clutter by making the port active or inactive.
- Users may choose the output resolution for each Main Monitor generally set to 1080P.



additional line in the description of the input Sources.

Example: as Shown (see following pages for details):

Blue Destinations

- Left Monitor 1 = Active in the SDI 1 Card, 1080P resolution and Fill Aspect
- Left Preview 1 = Inactive in the SDI 2 Card, Copy of SDI 1 (monitor 1), 720P res. and fill aspect
- Monitor 5 = Inactive and will not be shown on the Dashboard

Green Sources

- Wolf Camera = Input SDI 1 is Active and Enabled for routing (green light is on)
- SDI 2 is Inactive and not named (green light is off)
- C Arm Left = Input DVI 1 is Active, and Enabled for Routing (green light is on)
- C Arm Right = DVI 2 is Active and Enabled for Routing (green light is on)
- Component 1 (RGB) is Inactive (green light is off)

Green Light = Programed as Active and shows up on Dashboard **No Light** = Programed as not Active and hidden

Editing the Destinations (Monitors) - Name, Resolution, Image Size, Activate or Copy



Preview monitors copy the signal from the respective main monitor. Select copy From – monitor 1 or monitor 2. Select "Save" after Changes are Complete

Editing the Sources (Inputs) - Name, Activate or Enable Routing



Save after Changes

and VGA port

IDI IPS1000 Image Adjustment



IDI IPS1000 Image Adjustment



• To adjust the Source location on the Monitor Screen, select "Pan"

Example: C Arm color/contrast correction on Monitor 2



• There are 2 types of IPS1000 Configurations, A and B

• Tablets are universal but should be configured to match the card configuration

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General

Router Connections

- The IPS 1000 primary routing function is controlled by the Tablet. In case of a tablet failure, route images on the IPS1000 using the front blue screen and the menu buttons for navigation.
- The Tablets I/O layout mimics the IPS 1000 rear card configuration

Configuration A has a VGA and RGB card in slot 8 Configuration B has a DVI/multi input DVI card in slot 8

• The Installer should use this layout as a Guideline and the the MDS/FSN Configuration Cable Schematic document.





Emergency Operation

In the event the Tablet controller is not functional, the IPS1000 can act as a manual back up device.



Key Config. "A or B" Output Settings

- Left Main Monitor = **#1 Display**
- Right Main Monitor = **#3 Display** (router Menu only)

"A" Key Input Settings

- Left C Arm = YpBr **1**
- Right Arm = YpBr 2
- Camera = DVI 1
- Camera = SDI

"B" Key Input Settings

- Left C Arm = DVI 1
- Right Arm = DVI 2
- Camera = DVI 3
- Camera = SDI

Steps to Manually Change Images on Left Monitor (Look For Monitor 1)

Α		С		Α		D		Е		Α	D
-/+ to Display 1 Left Monit	L or 1	Shows Input S Menu (see ref a	the ource above)	-/+ thr Source	ough e Menu	Select H Locks ir	Key n Input	To char PIP	ige	+/- to desired PIP	Key Selects PIP Configuration

Steps to Manually Change Images on Right Monitor 2 (Look For Monitor "3" in Menu)

A	C 🕨	A		E	A	D
-/+ to Display 3 Display 3 is a clone of the right Monitor 2	Shows the Input Source Menu (see ref above)	-/+ through Source Menu	Select Key Locks in Input	To change PIP	+/- to desired PIP	Key Selects PIP Configuration

IDI 26" FSN Monitors



Monitor Connections and Set Up

General

- Each arm is equipped with 3 3g Sdi cables that are color coded. This helps to identify which cable is connected where. 2 cables are considered as spares and can be used as pass-through or as a replacement option.
- The monitors input row is the connection row closest to the monitors face.
- Connect the yellow and orange inputs into the SDI 1 and SDI 2 input ports.
- The Left Monitor 1:
 - SDI 1 Input Yellow BNC cable.
 - SDI 2 Input Orange BNC Cable (spare).
 - SOG or Composite SDI blue cable is spare.
- The Right Monitor 2:
 - SDI 1 Input Orange BNC Cable.
 - SDI 2 Input Yellow BNC Cable (spare).
 - SOG or Composite SDI blue cable is spare.
- Turn the Main power switch to ON.
- Using the front touch pad Input select the primary input source as **SDI 1** for Monitors 1 & 2. The "+" sign is the selection key confirming the input selection.
- Using the Setting Menu:
 - Input = The active primary input.
 - PIP Layout = Off.
 - Image = Fill Aspect.
 - Color Temp = C1.
 - Gamma = 2.2.
- Monitor Sleep mode has a blinking light and no light means that the monitor is active.



Input > Down Arrow to SDI 1 > "+" Key selects the selected menu item



Precautions - Screen

- Turn the MDS system off before cleaning the Monitor.
- Use a soft lint free cloth and don't spray cleaning fluid directly on the screen as seepage could damage internal electronics.
- Take care not to scratch the front filter screen:
 - Be mindful of jewelry.
 - Use minimal pressure to clean the face.

Approved Products

- Misty Clear Lemon 10 Disinfectant.
- Bohle Glass Cleaner.
- Zep Heavy-duty Glass and All Surface Cleaner.
- Klear Screen.
- Screen TFT (Kontskt Chemie).
- Incidin Foam (Eco Lab).
- Microzid.
- Mild Detergent.
- Isopropyl Alcohol with < 5% Concentration.
- Household Bleach (generic sodium hypochlorite, solutions of 5.25% sodium hypochlorite diluted with water between 1:10 and 1:100.

Do Not Use

- Alcohol/solvents at higher concentrations > 5%.
- Strong Alkalis or solvents.
- Detergents with Fluoride or Ammonia or Abrasives.
- Steel Wool, blades or scrubbing brushes.

Precautions – Cabinet

- Clean the bezel and housing with a clean, soft, cotton cloth with cleaning solution.
- Apply recognized cleaning product for medical equipment directly to the cloth.
- Repeat process with only water and wipe dry.

Approved Products

- Virex Ready-to Use Disinfectant Cleaner.
- Misty Clear Lemon 10 Disinfectant.
- Misty Multi-Purpose Disinfectant Cleaner I and II.
- Zep Heavy Duty- Glass.
- Klear Screen.
- Screen TFT (Kontskt Chemie).
- Mild Detergent.
- Incidin Foam (Eco Lab).
- Microzid.
- Precise Hospital Foam Cleaner Disinfectant.
- Isopropyl Alcohol with < 5% Concentration.
- Household Bleach (generic sodium hypochlorite, solutions of 5.25% sodium hypochlorite diluted with water between 1:10 and 1:100.

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