

# Horizon<sup>®</sup> SF

Multi-media Imager



**CODONICS**

Defining Image Distribution

# Horizon<sup>®</sup> SF

## Multi-media Imager

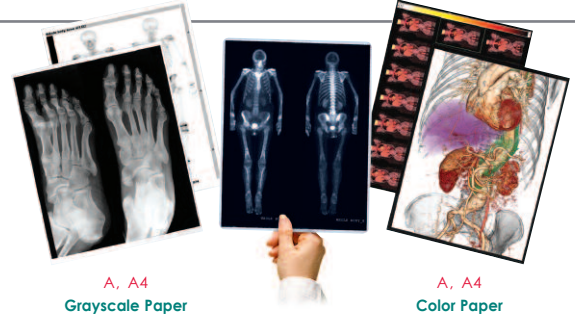
### Overview

The Horizon SF combines small format diagnostic film, color paper and grayscale paper printing to provide the world's most versatile medical imager. Horizon's multiple media options help to immediately cut your costs, build referring physician loyalty and attract new business. Featuring color paper to show off your latest imaging techniques, low-cost, room light viewable grayscale paper and a compact, counter-top design, Horizon obsoletes film-only imagers. High speed image processing, networking and spooling are all standard.

### Specifications

Print Technology:	Dye-diffusion and direct thermal (dry, daylight safe operation)
Spatial Resolution:	320 DPI (12.6 pixels/mm)
Throughput:	Up to 100 films per hour
Time To Operate:	5 minutes (ready to print from "off")
Grayscale Contrast Resolution:	12 bits (4096)
Color Resolution:	16.7 million colors 256 levels each of cyan, magenta, and yellow
Media Inputs:	Three supply cassettes, 50 - 100 sheets each, one color ribbon
Media Outputs:	Three receive trays, 50-sheet capacity each
Media Sizes:	8" x 10" (blue and clear) DirectVista <sup>®</sup> Film A, A4 DirectVista Grayscale Paper A, A4 ChromaVista <sup>®</sup> Color Paper
Dmax:	≥3.10 with DirectVista Film
Archival:	≥20 years with DirectVista Film, under ANSI extended-term storage conditions
Supply Cassettes:	All media is pre-packaged in factory sealed, disposable cassettes
Interfaces:	Standard: 10/100 Base-T Ethernet (RJ-45), Serial Diagnostic Port, Serial Console Optional: DICOM (up to 24 simultaneous connections), Windows network printing
Network Protocols:	Standard: FTP, LPR Optional: DICOM, PostScript <sup>™</sup> compatibility
Image Formats:	Standard: TIFF, GIF, PCX, BMP, PGM, PNG, PPM, XWD, JPEG, SGI (RGB), Sun Raster, Targa Optional: DICOM, PostScript <sup>™</sup> compatibility
Image Quality:	Automatic calibration using built-in densitometer
Image Control:	Gamma, Contrast, Saturation, Medical Color Matching (MCM <sup>™</sup> ), Polarity, Rotation, Scaling, Antialiasing
Sheet Control:	Density Adjustment (Dmax), Look-Up Tables (LUT), Image Warnings, Captions, Sheet Coverage, Border Color, Border Fill, Crop Anchor
Sheet Formatting:	1:1 - 1:81; Variable Multi-Formatting (VMF <sup>™</sup> ), Fixed Multi-Formatting (FMF <sup>™</sup> )
Control Panel:	Large, backlit LCD display, Status lights include Online, Alert, Fault, Active Power and Menu navigation buttons
Processor:	Intel
Memory:	256MB RAM
Hard Disk:	40GB (18GB available for spooling)
Removable Disk:	100MB ZIP <sup>™</sup> Disk for software upgrades
Smart Card:	32 KB for storing configuration data
Power:	Universal Input: 100-120/230V~ 50/60 Hz, 600W printing, 150W idle
Heat Emission:	Maximum 600W, 2,050 BTUs/hr. printing, 150W, 512 BTUs/hr. idle
Weight:	66 lbs. (30 kg.)
Engine Dimensions:	14.5" (37 cm) H, 20.5" (52 cm) W, 24" (61 cm) L
Environment:	Operating Temperature: 15-30C Storage: -22.2 - 50.6C Operating Humidity: 10-70% R.H. (non-condensing)
Regulatory:	Full medical device compliance including Class 2 FDA and Class 1 MDD CE, GMP/QSR, ISO13485:2003, 60601-1 Safety, and EMC/EMI (55011(B) & 60601-1-2) for Healthcare Facilities

8" x 10"  
Blue and Clear Film



A, A4  
Grayscale Paper

A, A4  
Color Paper



### Sunrise Express "Swap" Service

Smart Card from imager being replaced contains all of your internal settings such as IP addresses, gamma and contrast . . .



Smart Card is transferred to replacement imager for instant uptime!

**⚠** Class 1 laser product according to IEC 60825-1 and 21 CFR 1040.10 and 1040.11.



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