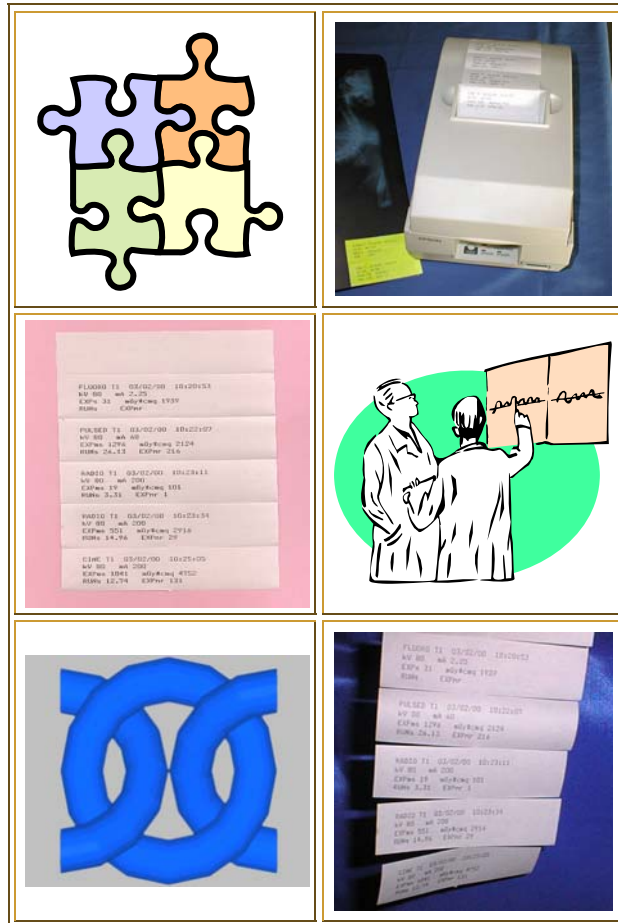


# Odel S.p.A.

## Program H.F. US R306.3x "Endeavour R"



## *X-RAY ACTIVITY REPORTING SYSTEM*

Including  
PRINTING SUBSYSTEM  
and  
DOSE AREA PRODUCT METER

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# X-RAY ACTIVITY REPORTING SYSTEM

**Including PRINTING SUBSYSTEM and DOSE AREA PRODUCT METER**

	Program H.F. US	R306.3x "Endeavour R"
Day & Time stamp	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Patient Data print-out		<input checked="" type="checkbox"/>
Techniques	Radio	AEC
	Fluoro	•• (kV-mAs)
	HCF	••• (kV-mA-s)
	CINE	APR Name
Tube in Use	<input checked="" type="checkbox"/>	
Exposure Voltage in kV	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Exposure High Voltage Current in mA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Fluoroscopic Cumulated Exposure Time in seconds	<input checked="" type="checkbox"/>	
Fluoroscopic Cumulated Dose Area Product in mGy cm <sup>2</sup>	<input checked="" type="checkbox"/>	
Pulse Fluoroscopy Cumulated Exposure Run-Time in seconds	<input checked="" type="checkbox"/>	
Pulse Fluoroscopy Effective Exposure Time in milliseconds	<input checked="" type="checkbox"/>	
Pulse Fluoroscopy Effective Exposure Time in milliseconds	<input checked="" type="checkbox"/>	
Pulse Fluoroscopy Effective Pulse number	<input checked="" type="checkbox"/>	
Pulse Fluoroscopy Cumulated Dose Area Product in mGy cm <sup>2</sup>	<input checked="" type="checkbox"/>	
Single/Multiple Radiography Cumulated Exposure Run-Time in seconds	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Single/Multiple Radiography Effective Exposure Time in milliseconds	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Single/Multiple Radiography Effective Pulse number	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Single/Multiple Radiography Cumulated Dose Area Product in mGy cm <sup>2</sup>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Cine Radiography Cumulated Exposure Run-Time in seconds	<input checked="" type="checkbox"/>	
Cine Radiography Effective Exposure Time in milliseconds	<input checked="" type="checkbox"/>	
Cine Radiography Effective Pulse number	<input checked="" type="checkbox"/>	
Cine Radiography Cumulated Dose Area Product in mGy cm <sup>2</sup>	<input checked="" type="checkbox"/>	

## TECHNICAL SPECIFICATIONS

### REPORTING Subsystem

Permanent Printed-paper labels or sticker labels with no needs for pre-cut labels  
DAP output on-site correction facilities

	Program H.F. US	R306.3x "Endeavour R"
Printer Server	CANBus Counter Board	Integrated
Measuring Chamber	3	1
Automatic Chamber Presence test	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Automatic Chamber In Use Selection	<input checked="" type="checkbox"/>	
Count rate up to 1MHz for DAP rates up to 1 kGy cm <sup>2</sup> /s.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Plug&Play over O-XRLink generators (Program H.F. US series 2000).	<input checked="" type="checkbox"/>	

Minimal on-site upgrade on Program H.F. US already installed.

### DOSE AREA PRODUCT METER - Measuring Chamber.

New rectangular ionisation chamber with integrated pulse generator electronics, IEC 580 and DIN 6819 compliant\*  
as for European Directive 97/43/EURATOM.

Characteristics\*:

Measuring Range DAP	(1..10 <sup>8</sup> ) mGy cm <sup>2</sup>
Sensitivity for the System Output	1 pulse per mGy cm <sup>2</sup>
Accuracy	max. ±20% total error
Sensitivity ε (70 kV, 3mm Al total filter)	> 8*10 <sup>-8</sup> As/(Gy cm <sup>2</sup> )
Uniformity of sensitivity	< 6%
Radiation-sensitive area	(147 * 147) mm <sup>2</sup>
Leak current	< 0.1 pA
Aluminium equivalent (acc. to DIN 6863)	0.2 mm
Aluminium equivalent (acc. to DIN 6819)	0.44 mm
Light transparency	> 75%

### DOSE AREA PRODUCT METER – Chamber to Counter connection.

4p-F-Binder 712 to M-DIN 5/s pre-assembled 20 m. standard cable.

\*according to manufacturer data

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