

# Full-HD Visual System

Visual System for ENT surgery



VS-3CL

Mega Medical

# Introduction



- ✓ Visual system featured with 3CMOS Camera Sensor
- ✓ Specialized in ENT surgery
- ✓ High quality LED Light source
- ✓ Medical Monitor (Optional)
- ✓ Mega Cart (Optional)

# Features






- ✓ 1/3inch 3CMOS Sensor
- ✓ 1,920 X 1,080 Full HD
- ✓ Format 1000TV lines horizontal
- ✓ SNR 54dB
- ✓ HD-SDI / DVI / NTSC, PAL Output
- ✓ Light source CCT 6000K, CRI 90
- ✓ Variable light intensity
- ✓ 27" Medical Monitor (Optional)
- ✓ Mega New Cart (Optional)

## Advantages

- **3CMOS Sensor gives exceptional color image**
- **Color Adjusting in Detail for Operation room**
- **Lightweight hand gun (100g) decrease wrist fatigue and pain**
- **Faster and enhanced Imaging Processing**
- **Low electricity consumption decrease heat of the handgun**



# Comparison

Mega Medical	Storz	Stryker
		
<p><b>Model: VS-3CM</b></p>	<p><b>Model: HD Image 1</b></p>	<p><b>Model: 1488</b></p>
<p><b>Consumer Price : Approx. USD 30k</b></p>	<p><b>Consumer Price : Approx. USD 85k</b></p>	<p><b>Consumer Price :Approx. USD 75k</b></p>
<ul style="list-style-type: none"> <li>• 3 X 1/3" 3CMOS three chip</li> <li>• 1,920 X 1,080p</li> </ul>	<ul style="list-style-type: none"> <li>• 3 X 1/3" CCD chip</li> <li>• 1,920 X 1,080p</li> </ul>	<ul style="list-style-type: none"> <li>• 3 X 1/3" 3CMOS three chip</li> <li>• 1,920 X 1,080p</li> </ul>

**Storz and Olympus are featured with CCD Camera,**

**→ When used for a long period of time, the hand gun easily gets heat up.**

# Image Quality

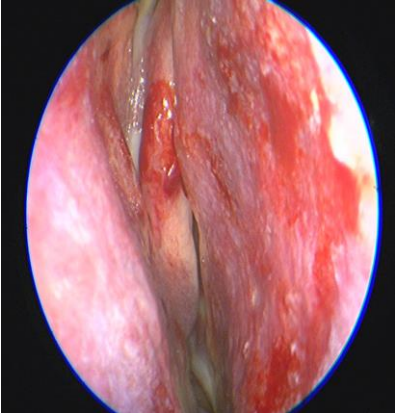
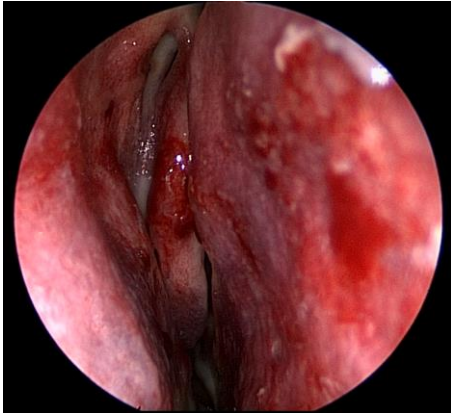
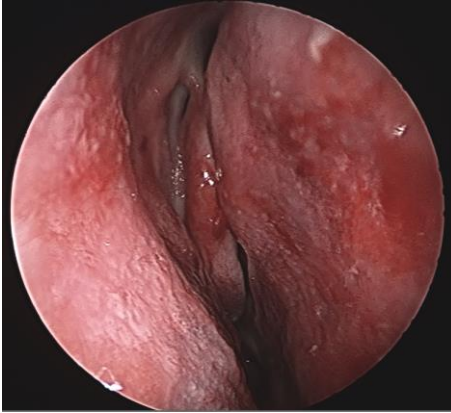

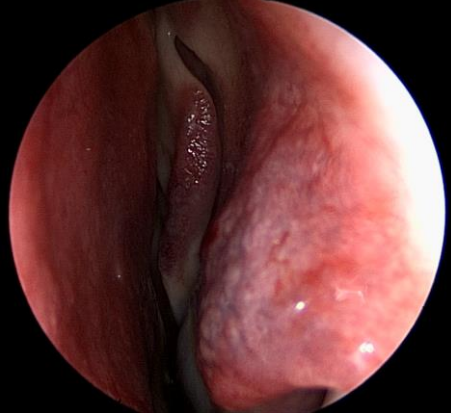
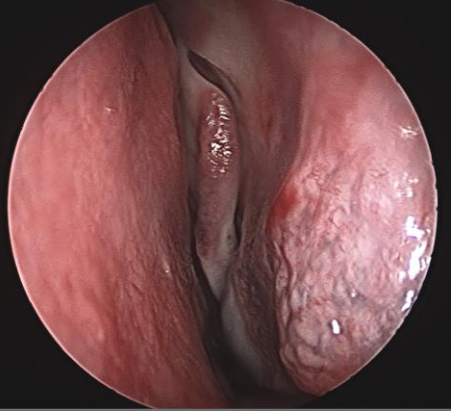
Mega Medical	Storz	Stryker
		
		

Image display quality is superior compared to the others

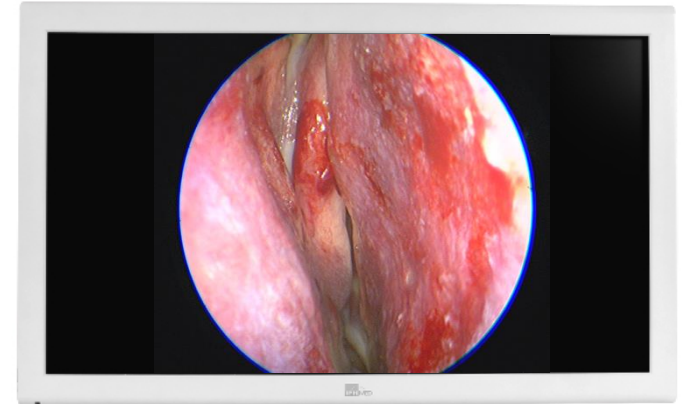
## Specification

Specifications (VS-3CM : 3CMOS Camera)	
<b>Power requirement</b>	AC100 - 240 V $\pm$ 10%
<b>Lens mount</b>	C-mount
<b>Aspect ratio</b>	H16 : V9
<b>Image sensor</b>	1/3-inch CMOS sensor x 3(rolling shutter)
<b>Scanning system</b>	Progressive scan
<b>Image resolution</b>	1,920 x 1,080
<b>Frame rate</b>	60p
<b>Scanning System</b>	Progressive scan
<b>Recording media</b>	USB
<b>Video output (HD output)</b>	HD-SDI (2 lines): 0.8 Vp-p / 75 $\Omega$ DVI (1 line):1920 x 1080P 59.94/50 Hz 1920 x 1080I 59.94/50 Hz
<b>Video output (SD output)</b>	SD-VBS (1 line): 1.0 Vp-p / 75 $\Omega$ SD-Y/C (1 line): Y 1.0 Vp-p / 75 $\Omega$ C 0.286 Vp-p / 75 $\Omega$
<b>Input Control Signal</b>	Foot SW(1 line), 9-pin D-sub, female
<b>Camera cable length</b>	5m single, 7m single or 5+10m combination cable
<b>Dimension</b>	Camera head : W34 X H40 X D40mm CCU : W170 X H58 X D270mm
<b>Weight</b>	Camera head : 100g or less, CCU : 2kg or less

## Specification

### . Features

- Endoscopic Color Calibration
- Roll & Select OSD Control Button
- High-efficiency LED Backlight
- Internal Power Supply
- Various In/Out Connectors
- **Medical Monitor**



### ▪ Panel

- Size(Diagonal) : 27"
- Backlight : LED (Light Emitting Diode)
- Resolution : 1920x1080
- Number of Pixels : 2.07 Million
- Color Reproduction : 16.7M Colors
- Brightness Max. : 650cd/m<sup>2</sup>
- Contrast Ratio : 1000:1 (Typical)
- Viewing Angle : 170°(H)/170°(V)

### ▪ I/O

- 15pin D-sub Input
- Analog RGB/Component (BNC x 5) In / Out
- DVI In / Out
- HD-SDI In / Out
- S-Video. C-Video In / Out

### ▪ Power

- Power Supply Built-in SMPS
- AC 100V ~ 240V VAC ±10%, @ 50/60Hz
- Power Consumption Max. 70W

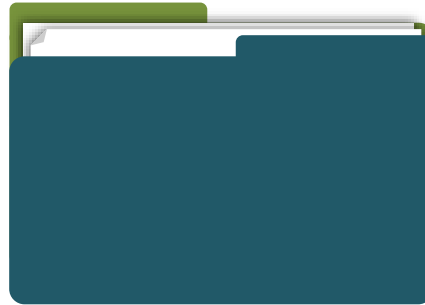
### ▪ Regulation & Miscellaneous

- Operating Temperature 0°C ~ 50°C
- Operating Humidity 10% ~ 80%
- Dimensions(mm)  
653.35mm(W) x 402.6mm(H) x 86.3mm(D)±2

### ▪ Life Cycle

- 100,000hrs





THANK YOU