

# 물 품 규 격 서

- 입찰공고번호 : (학)일송학원 재단 관리국 제2025-242호
- 입찰건명 : 이비인후과(외래) Video Endoscope System 구매
- 수요기관 : 한림대학교 춘천성심병원
- 납품장소 : 수요기관 희망장소 입고도
- 물품내역 등

연번	품명(영문, 국문)	규격및사항	총 구매예정수량 (Q'TY)	1회 최대 발주수량	Warranty 기간	단위 (Unit)
1	Video Endoscope System (내시경 시스템)	하단 참조	1	1	검수(합격)일로부터 3년 종료월 말일까지	SET

## □ 공통사항

1. 장비의 설치와 작동 및 교육은 무상으로 제공한다.
2. 수요기관 담당자 입회 하에 계약상대자는 제품의 설치 테스트 및 시험작동을 실시하여야한다.
3. 무상 하자담보 책임기간은 물품 검수(합격) 완료일로부터 **3년 종료월 말일까지**를 기본 원칙으로 하며 계약상대자의 추가 제안에 따라 3년 종료 월 말일까지의 기간을 초과하여 설정할 수 있다.
4. 무상 하자담보 책임기간 중 수요기관의 사정으로 인하여 부서 및 장비의 위치가 불가피하게 이동을 필요로 할 경우 설명 및 설치가 무상으로 이루어진다.
5. 하자담보 책임기간 중 공급된 장비의 부속품이 단종된 경우 수요기관이 인정하는 동등 이상의 장비로 무상교체가 이루어져야 한다.
6. 계약상대자는 어떠한 상황에서도 애프터서비스를 위하여 전문서비스 인력을 제공하여야 하며 애프터서비스를 위하여 교체 부품을 보관하여야 한다.
7. 계약상대자는 장비 납품 시 납품일을 기준으로 제품 제조년월이 6개월 이내인 장비를 납품 하고 납품장비에 해당 제조년월이 명시되어야 한다.

## <규격·사양>

### A. Features

#### 1. Camera Control Unit

- 1) A versatile surgical platform to realize efficient system operation by possessing many compatible scopes and features optimized to respond to each specialty's clinical needs
- 2) Extensive versatility for all specialties from a wide range of compatibility with clinically optimized scopes/cameras and functions
- 3) Easy operation and handling through intuitive user interface, improved ergonomics, and extensive line-up of autoclavable products
- 4) All in one Putting the video processor, light source, and mixer together in one single box, a compact imaging system will be provided to our customers, and will also help their initial investment by decreasing the number of boxes.
- 5) Intuitive operation by LCD Touch panel
  - (1) Easy to switch and set the desired function using the touch panel without a keyboard
  - (2) "Wizard" function allows step by step setting.
  - (3) User settings for up to 20 users with 5 user presets (A-E) as templates.
  - (4) Patient data for up to 50 patients.
  - (5) System setup, user settings, and patient data can be copied to another using the portable memory.
  - (6) Security function for patient data, etc
- 6) Convert the current FULL HD image from the camera's main body into a 4K compliant image using the upscale filter and implement it on a 4K monitor
- 7) Flexible endoscope and rigid endoscope compatible with no other devices required on camera body
- 8) Neck-side handling has the rigid and flexible endoscope image Reverse function in the affected area to enable precise handling with the normal video

#### 2. Rhino-Laryngo Videoscope

- 1) Exceptional luminosity

- (1) Although it has a small diameter, the scope still illuminates a broad area, providing a detailed image of any lesions within the field of view.
- (2) This exceptional luminosity is especially useful when observing with NBI.

## 2) Wide field of view

- (1) The Scope has a viewing angle of 110° And with HD resolution and exceptional illumination, every corner of the field can be thoroughly inspected.

## 3) Pre-freeze Function

- (1) The Scope continuously captures still images even before you push the Pre-freeze button. When you press the button, the system automatically selects the sharpest image among several.

## 4) NBI(Narrow Band Imaging)

- (1) During endoscopic observation, NBI enhances visualization of the capillary network and mucosal morphology.

## 5) HD

- (2) With advances in CCD technology, The Scope delivers HD images, which show even greater detail for examinations.

## 6) Surprisingly Slim Diameter

- (1) The distal end of the scope is only 3.9mm in diameter. Also, the difference between diameters of the distal end and the insertion tube is minimal.
- (2) This makes insertion into tight nasal passages much easier. And with the CCD chip's improvement, even this slim scope delivers exceptional image quality.

# 3. Telescope

# 4. Monitor

- 1) Large 4K Screen
- 2) Wide color gamut

- 3) Clear and High-contrast View
- 4) Advanced Image Multiple Enhancer
- 5) Variety of display formats

## **B. Specification**

### **1. Camera Control Unit**

#### **1) Power supply**

- (1) Voltage : 100 - 240 V AC; within  $\pm 10\%$
- (2) Frequency : 50/60 Hz; within  $\pm 3$  Hz Consumption electric
- (3) power: 150 VA

#### **2) Size**

- (1) Dimensions: 370 x 85 x 455 mm (standard)  
383 x 91 x 489 mm (Maximum)
- (2) Weight: 19.8 kg

#### **3) Classification (medical electrical equipment)**

- (1) Type of protection against electric shock
  - Class I
- (2) Degree of protection against electric shock of applied part
  - Depends on applied part. See also applied part (camera head or videoscope).
  - Degree of protection against explosion
  - The video system center should be kept away from flammable gases.

### **2. Rhino-Laryngo scope**

#### **1) Optical System**

- (1) Field of View :  $110^\circ$
- (2) Depth of Field : 5.0-50mm

#### **2) Insertion Tube**

- (1) Distal End Outer Diameter : 3.9mm
- (2) Insertion Tube Outer Diameter : 3.6mm
- (3) Working Length : 300mm

#### **3) Bending Section**

(1) Angulation Range : Up 130° / Down 130°

- 4) Total Length 500mm
- 5) Number of Remote Switch : 4
- 6) NBI : Available
- 7) Stroboscopic Light Source : Available

### 3. Telescope

- 1) Diameter : 4mm
- 2) Direction of View : 70°
- 3) Working Length : 175mm
- 4) Autoclavable

### 4. Monitor

- 1) 4K UHD Surgical Display
- 2 Display size : 27"
- 3) Support color : 1.07 billion
- 4) Resolution : 3840×2160
- 5) Viewing angle : L/R178°, U/D178°(CR>10) Typ.
- 6) Brightness : 800cd/m<sup>2</sup> Typ.
- 7) Contrast : 1000:1 Typ.
- 8) Input signal : DVI-D(Single link)\*1, DP 1.2\*2, 3G-SDI\*1, HDMI 2.0\*1

### C. Consist of

- |                                       |      |
|---------------------------------------|------|
| 1. Camera Control Unit & Light Source | 1Set |
| 2. Rhino-Laryngo Videoscope           | 1ea  |
| 3. Telescope                          | 1ea  |
| 4. Monitor                            | 1ea  |

### D. Remarks

Warranty : 검수(합격)일로부터 3년 종료일 말일까지