

Virtualmind 360° Endoscopic Probes

BACKGROUND

The limit of modern endoscopic probes is the partial view of what surrounds when they are introduced inside the human body; even very recent probes design, although they have a wider viewing angle, have the huge limitation of not being able to observe "everything that surrounds them", but only a too small portion... what falls within the field of view of the probe. This means a big loss of time in repositioning the instrument in the right direction, with considerable inconvenience both for the patient and for the operator.

INNOVATION

Development of an endoscope (2-3 Optic) with recording 360° images for the Industrial market, safety, biomedical, based on a family patents international registered the following characteristics:

- immersive camera which recommences the content mode 360° x180° (spherical) in high or very high definition, 4-6 million pixels.
- 2 versions: pill version and version colonoscopy endoscopes and Rectoscopy 2-3 Optics

Based on multiple technological and clinical studies Virtualmind introduces a new technology for the biomedical and clinical branch, the 360° omnidirectional stereoscopic Realtime Streaming vision.

TECHNICAL CONSIDERATIONS

Modern Team of surgeons have high-tech equipment, but at the same time, complex in their use.

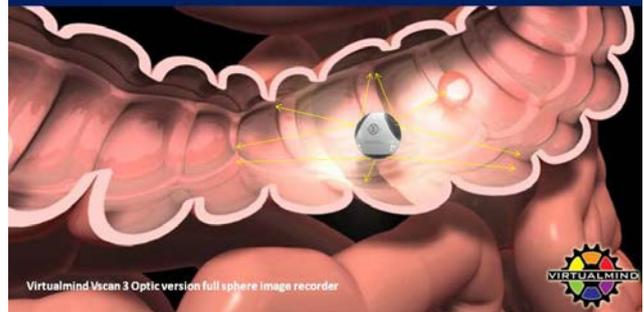
It's obvious and evident the considerable advantage offered by an endoscopic probe capable of observing at 360°: observe in real time the internal organs, with omni directional 360° vision without losing any detail; not having to reposition the probe several times, the Operator may be more focused on the investigation and control operations, no losing attention, as today with the classical unidirectional probes, that although with wide viewing angle does not have a spherical vision of all that surrounds them, in real time.

These highly innovative probes, provide to the surgeon the opportunity, even if only virtual, of miniaturize himself and fit inside the human body to observe where he wants, when he wants, without repositioning the instrument and always have a perfect focus during the surgery.

FEATURES

- Two or more optics, Omnidirectional 360°x 360°;
- Video resolution > 10k, photo resolution > 30k
- Wireless, Realtime Streaming, Stereoscopic vision
- Diameter: 9-15 mm - WEIGHT: 12-55 gr

Full Sphere data Recorder No particular loss



ADVANTAGES

The benefit of having a probe with a 360° view is absolute: instead of a small shot, you can see... EVERYTHING.

Various types of remote video signals are available: through stereoscopic glasses that offer the surgeon and the Equipe also the depth of field, in addition to the omnidirectional 3d vision for an absolute quality, minimizing the movements of the probe inside the organs; a second two-dimensional vision replicable on external monitors to have an eye on the entire spherical field that surrounds the camera into a single two-dimensional image, an omnidirectional spherical image in 2d.

APPLICATIONS

- Digestive
- Cardiovascular

Investigations and intrathoracic audits points not easily accessible without removing the internal organs.

FINANCIAL CONSIDERATIONS

It introduces this 360° technology in the biomedical Market will bring innovation as a tech help as well as great advantage in the tools and equipment economic management.

REFERENCES

Site: www.virtualmind.it

Real 720° - Panoptes 360 ©© International Patent

Adverstising Spot link: Real360 Spot