UTAS

UM 300-S Patient Monitors

Our contribution to the fight against COVID-19

Solutions that support patients and assist clinicians

UM 300-S Patient Monitors — Effective Solutions that support patients with COVID-19 and assist clinicians

In the fight against the COVID-19 pandemic, the healthcare industry meets new challenges and requirements.

Such changes have affected the medical care process including patient transportation and functionality of the medical equipment.

Innovative solutions implemented in the UM 300-S patient monitors meet these highest and new requirements.

It makes them reliable assistants for physicians and nurses in the COVID-19 treatment.

Continuous patients monitoring for every clinical situation

In basic configuration ECG, SpO_2, NIBP, 2xT, RR, and HR.
Use the **UniPort**™ connection to easily extend monitor's functionality with additional modules.

The COVID-19 is associated with different acute complications: progressive respiratory failure, sepsis, complications of heart disease, etc. Confirmed and reported cases of COVID-19 have a wide range of symptoms from mild complaints, such as fever and cough, to more critical cases associated with different accompanying illnesses.[1]

Continuous and high-quality monitoring of the patient's vital signs is critically important in such conditions.

Patient monitor UM 300-S with connected UniPort™ modules

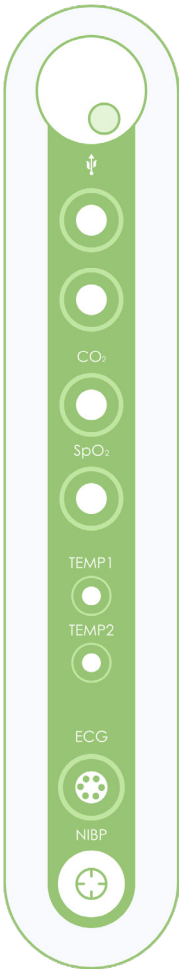
In the UM 300-S basic configuration there is an integrated set of channels, required by Standards at Harvard Medical School.[2]

With **UniPort™ technology** of additional measuring modules, clinicians can extend functionality of the monitor directly at the patient's bedside without replacing the equipment.

Clinicians can **configure the most efficient parameters' set at the patient's bedside** in each specific clinical situation for each patient.

In just 10 seconds, a clinician can set up enhanced configuration with UniPort™ modules-in-cable

Basic set	Extended set
ECG	ECG 12-lead
SpO_2	IBP
NIBP Smart	Multigas
Temp x2	BIS™
HR	NMT
RR	C.O.
	ICG
	EEG \ aEEG



All channels have built-in protection for defibrillator and electrosurgical units

Reliable monitoring for confident decisions

The quality of measurements in the UM 300-S Patient Monitors is guaranteed by the cooperation with the world-leading measuring modules developers and UTAS professional development team.

UTAS partners in the development and integration of measuring modules

Incomplete data on the patient's status are considered a threat to the patient by 78% of doctors and 75% of the interviewed senior nurses.[3]
Especially this factor is critical in the case of patients with COVID-19.

The medical personnel needs to receive high-quality objective information about the patients' status. This data will help to effectively select the patients depending on the severity of the disease. As a result, it allows clinicians to decide on necessary treatment right on time. Additionally, this approach can improve patient safety and help to optimize the workload in ICU.

The high quality of measurements in the UM 300-S patient monitors is guaranteed by long-term cooperation with the leaders in measuring modules production

Masimo Corporation (pulse oximetry, multigas), **Philips Respironics** (capnography), **Medtronic** (pulse oximetry, BIS™ module) **IDMED** (NMT module) and others.

All of them have achieved **"gold standards"** in their development areas.[4]

Monitor the patient status remotely on smartphones and Central station UNET-S

View remotely the real-time patients' data with UniViewer and UNET-S Central Station.

Medical personnel is at a high risk of infection caused by direct contact with a COVID-19 patient.[5]
Solutions that are implemented in the UM 300-S patient monitors reduce the time and the number of contacts with COVID-patients.

Patient monitors UM 300-S continuously transmit information to **the UNET-S Central Station.**

And remote monitoring **UniViewer technology** provides access to patient data in real-time directly on mobile phones or tablets while you are away from the patient's bedside.

Data visualization on tablet and smartphone

The central station is installed outside the "red" or "yellow" areas of the hospital.

With UNET-S Central Station and UniViewer caregivers can monitor patients' status in real time without increasing the number of contacts with them. Even with limited resources.

Remote Continuous monitoring by UTAS:

- **No need for the clinicians to be at the patient's bedside constantly.**
- **Can reduce SARS-CoV-2 viral loads and infection risk for healthcare workers.**
- **Increases the level of the patients' status monitoring by qualified medical personnel, taking into account the maximum workload in the ICU.**
- **Clinicians can consult remotely with colleagues around the world.**
- **Reduces alarm fatigue with remote access to the patient's data without visiting the bedside very often.**

Don't let COVID-19 become a hospital-acquired infection!

Patient monitors easy and effective disinfection is an important factor in the fight against the nosocomial coronavirus infection.

Functional design and easy sanitization

In preventing the spread of nosocomial infections, **disinfection of the surfaces of medical equipment remains an essential factor**. Recent studies have shown that SARS-CoV-2 can persist on inanimate surfaces (such as plastic, silicon rubber, or stainless steel) for a few days [6]

That is why patient monitors that are located close to patients with COVID-19 must be cleaned and disinfected regularly and with ease.

It is easy to follow the sanitation guidelines with UM 300-S patient monitors:

- **There are no connectors or controllers on the smooth front panel.**
- **No dust in the device through ventilation holes** due to fanless technology.
- **No consoles:** the measurement modules are mounted on the special back holder and do not complicate the sanitation process.

In times of increasing risks and burdens, UTAS does its best to support clinicians in their work through all solutions that we implement in our medical equipment.

Special attention in **UTAS solutions for patient monitoring** is paid to the reliable measurements; ease of expanding the monitor's functionality and cooperation with world-class module manufacturers; remote view and continuous monitoring.

All this is to improve patient safety and support healthcare workers in these tough times.
This is our contribution to the fight against the COVID-19 pandemic.

References

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