

# Safety Suite

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## Ambience Features

**The relaxed treatment atmosphere for maximum patient cooperation.**

A pleasant environment has a positive effect on cooperation, minimizes stress, contributes to relaxation and reduces the need for anesthetics. With the Ambience Features of the Safety Suite, you can create an individual treatment ambience for your patients in just a few seconds.

The individual features of the Safety Suite can be combined individually to provide the best possible support for your everyday workflow. The display and operation is touch-controlled via the multifunctional Terminals. The features are available for all common LINAC models from the manufacturers Accuray, Elekta, Siemens and Varian.

Further areas of application: CT and brachytherapy rooms.

## Functions

Ambient Music (EXT-AMM-0001):

- Integration of radio streams
- Play your own music from your personal device

Ambient Diashow (EXT-AMD-0001):

- Selection of different image series
- Integration of TV streams
- Display of individual content (static, animated)

Face to Face (EXT-FTF-0001):

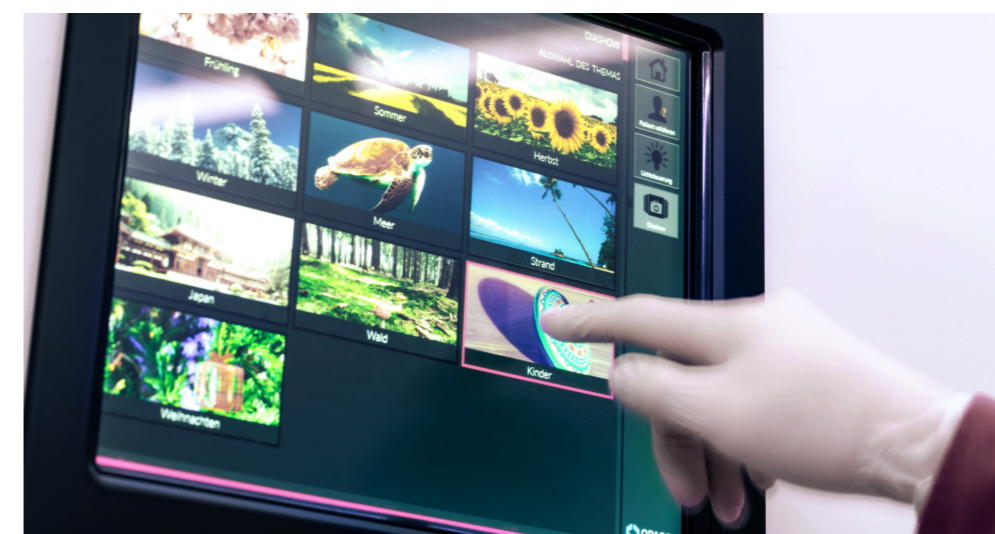
- Video telephony between ComUnit at workstation and via Inroom Screens in the treatment room

Ambient Lighting (PRT-ALP-0001):

- Automated, theme-based or individual setting across the entire color spectrum
- Automatic switching between modelling and treatment mode

## Benefits

- Simple and fast design of a patient-specific treatment atmosphere
- Convenient selection of presets
- Increase a positive, patient-oriented perception
- Distracting your patients from the clinical atmosphere
- Active influence of your patients on the treatment environment by selecting music and light settings
- More personalized communication with your patients
- In conjunction with Intercom: Automatic interruption of music, even on externally played devices or radio streams, when healthcare professionals are speaking to the patient



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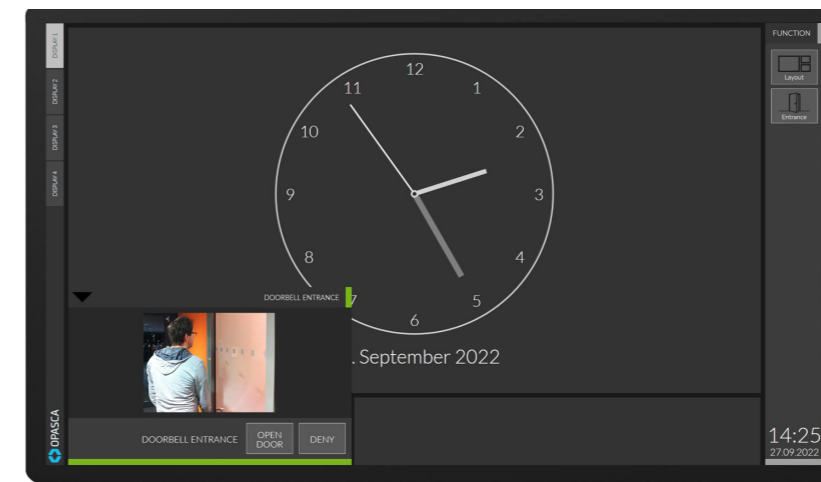


## Functions

- Integration into the electronic door control system
- Access control for different groups of people (including employees, service providers, external parties)
- Live camera image transmission during activity integrated into the cockpit user interface

## Benefits

- Increased level of security
- Convenient operation
- Fast response option directly from the workstation



## Entry Control

The integrated access control for your restricted area.

For restricted areas and also outside regular operating hours, Entry Control offers a convenient and integrated way of access control. The Entry Control Unit is connected to the opening mechanism of the respective door. Authorized persons such as qualified personnel or service providers can open the door either by pin or RFID card. If an unknown person requests access and presses the corresponding button, a live camera image of the Entry Control Unit appears on all integrated Terminals and you can decide comfortably from your workstation if you want to open the door.

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Further areas of application: CT and brachytherapy rooms.

Safety Suite  
Entry Control  
EXT-ENC-0001

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## Gating Feedback

**The contact- and accessory-free support of breath-controlled radiation.**

Especially for breath-assisted radiation (e.g. DIBH), the active cooperation of the patient is relevant for the success of the treatment. Gating Feedback provides an intuitive, non-contact solution to quickly and easily assist your patients with the required breathing. The colored light is easily perceived in any position, even in the peripheral field of vision. Your patients need a comparatively shorter training time and you can check the initially set threshold values earlier for optimizations so that surrounding healthy tissue is spared as much as possible.

Currently available for the following gating systems: C-RAD Catalyst® (EXT-GAF-0001) and visionRT AlignRT® (EXT-GAF-0002).

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Further areas of application: CT and brachytherapy rooms.

## Functions

- Automatic control of Ambient Lighting panels according to the patient's gating state
- Interoperability Agent for support of gating systems from C-RAD and visionRT
- Operation via touch-controlled Terminal

## Benefits

- Intuitive, easy-to-understand patient feedback, also easily perceivable in the peripheral field of vision
- Contactless, accessory-free and hygienic
- Supports optimization of gating thresholds and thus best possible protection of surrounding tissue
- Comparatively short training times reduce treatment and device times
- Available in multiple languages



**Safety Suite  
Gating Feedback**

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## Intercom

The bidirectional and interference-free communication solution for your radiation rooms.

Smooth radiation requires a reliable and interference-free speech and hearing connection. Intercom is a bidirectional communication solution and is based on high quality audio components to ensure optimal intelligibility between you at the workstation outside the radiation room and your patient on the treatment table. The full-duplex application ensures comfortable two-way communication without feedback and minimization of background noise. Of course, you can interrupt the audio connection to the treatment room if necessary. Optionally, the announcement to the waiting area can be integrated (Patient Announcement).

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Further areas of application: CT and brachytherapy rooms.

## Functions

- Activation of the speech connection to the patient if required
- Preconfigured, manually adjustable acoustic characteristics
- Automatic filtering of background noise
- Automatic interruption of music (Ambient Music) during speech activity
- Optional: announcement function to the waiting area

## Benefits

- Uninterrupted, bidirectional speech and hearing connection for flawless communication between operator station and treatment room
- Perfect speech intelligibility
- High acceptance due to clear, intuitive operation and best audio quality
- Fulfillment of regulatory operating requirements for radiation therapy facilities



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**Safety Suite**  
**Intercom**  
EXT-INC-0001



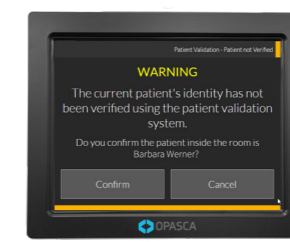
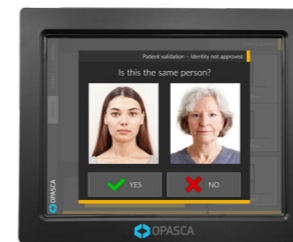


## Functions

- One-time manual assignment of patient reference to OIS ID
- Autonomous or assisted follow-up validation at each radiation session
- Suspend validations as needed
- For MOSAIQ®: Integration in Site Setup Verification
- Manual check and release in case of deviations
- Biometric data matching between reference and current patient

## Benefits

- Reliable prevention of patient misidentification
- High acceptance due to complete integration into the safety cycle of everyday workflow and intuitive operation
- Increased patient sovereignty and sense of security on the patient side
- Integration into the LINAC interlock increases the safety level



## Patient Validation

The visual verification of patient identity to reliably avoid misidentification.

Initially, you assign reference data of the currently loaded patient to the OIS-ID, which is used for the validation in all subsequent radiations. The patient can also do this himself while you are already preparing the positioning aids. In this way, you enable your patients to actively participate in the treatment process and at the same time obtain the safety that misidentifications are excluded. If there is a discrepancy, you will be informed automatically and the radiation will not be released until you have checked it. The validation of bed and anesthesia patients can be suspended if necessary.

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Further areas of application: CT and brachytherapy rooms.

## Patient Validation for bed patients

For safe irradiation of patients in bed

Patient Validation for bed patients is an innovative solution that enables the patient to be brought safely and quickly into the irradiation room. With the help of the Inroom Terminal and the floor marker, the patient's bed is precisely positioned. The patient is automatically registered and validation is quick and easy. The patient is always clearly visible, and all necessary information is displayed in real time. Our feedback provision guarantees reliable and precise patient validation.



Safety Suite  
Patient Validation  
EXT-PAV-0001

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## Functions

- Complete, sensor-based coverage of the treatment room
- Integration into the LINAC interlock
- Automatic and intelligent real time analysis of the current room situation before radiation starts.
- Visual feedback in case of potential danger, final release only by qualified staff, not the system.
- Display of live camera images at the workstation for surveillance (Video Monitoring)

## Benefits

- Uncompromising protection of all persons in the radiation therapy room
- Fully functional without identification, tags or registration of persons
- Integration into the interlock minimizes operating effort and increases safety
- Automatic and intelligent real-time analysis of the current room situation before radiation begins
- Unambiguous, easy-to-understand system feedback
- Available in multiple languages

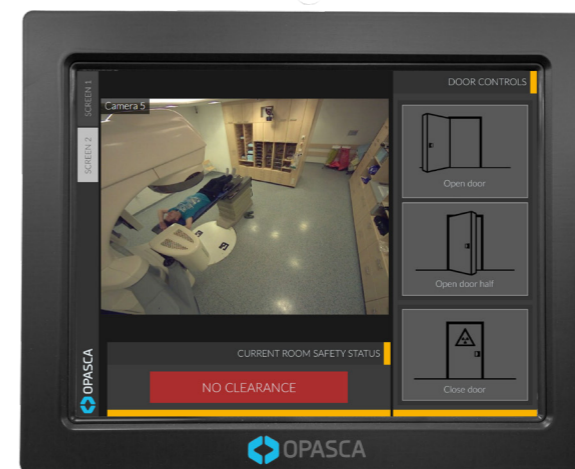
## Personal Safety

The markerless and reliable personal safety solution.

Optical sensors detect the entire treatment room and warn you reliably with a still image before the start of radiation whether there are still people in the room. If this is not the case, you continue without interruption. The technology used, clearly distinguishes the patient on the treatment table from the room environment, but not whether it is your colleagues, cleaning staff or service externals. This protects everyone from accidental radiation exposure, without the need for identification, badges or registration.

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Further areas of application: CT and brachytherapy rooms.



Safety Suite  
Personal Safety  
EXT-PSS-0001

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## Radiation Detection

The source-independent monitoring of radiation with integrated protocolling.

Both in brachytherapy and optionally in teletherapy, Radiation Detection continuously detects existing radiation in the treatment room independently of the source. The current values are displayed via the Door Terminal as well as the Cockpit Terminal. The setting of the threshold values is pin-protected and adjustments are logged. If the data is above the threshold values, an optical and acoustic warning is triggered before access to the treatment room is granted. All measured values are automatically protocollated and are used to evaluate the weekly, monthly or even annual beam times.

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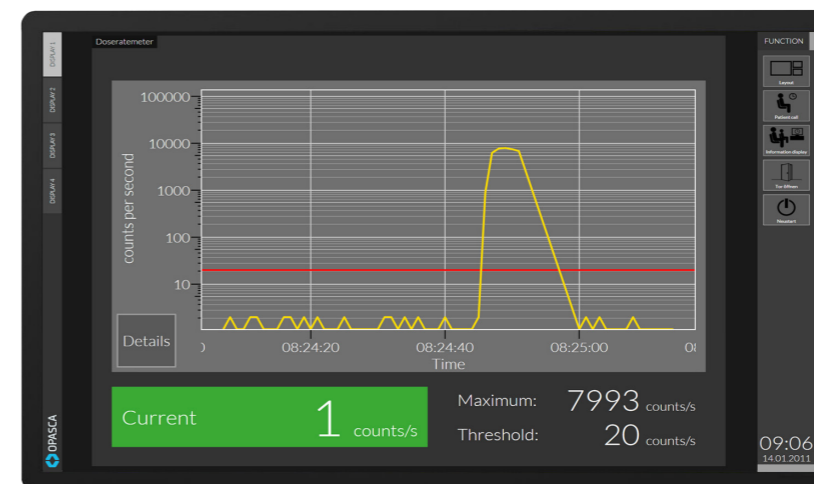
Further areas of application: CT and brachytherapy rooms.

### Function

- Source-independent detection of radiation
- Individually adjustable, pin-protected threshold value
- Storage of beam times (for brachytherapy: incl. UPS)
- Display and operation via touch-controlled OPASCA terminal

### Benefits

- Reliable warning of potentially harmful residual radiation in the room
- Clear display of measured values and individual evaluation options
- Compliance with regulatory operating requirements for brachytherapy facilities



Safety Suite  
Radiation Detection  
EXT-RAD-0001

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## Video & Patient Monitoring

**The convenient and durable video surveillance of your radiation rooms.**

The live images from the high-resolution, radiation-hardened and wide-angle camera units are displayed on the various layouts of the Cockpit Terminal at the operator station. Display settings can be easily changed with just a few touches of the finger, eliminating the need for any operating peripherals. Patient Monitoring allows you to take close-up views monitor relevant vital signs or other monitor displays. You can also integrate the monitoring of waiting areas, bed ward or other areas where you cannot be personally present for your patients.

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Further areas of application: CT and brachytherapy rooms.

### Functions

- High-resolution camera images without noticeable transmission delay
- Integrated residual light filter
- Video Monitoring: integrated digital zoom function
- Patient Monitoring: 10x or 30x optical zoom
- Distortion-free wide-angle view If required: radiation- hardened
- Presets for display and zoom settings

### Benefits

- Touch-controlled split-screen display with individual, quickly adjustable display options for best possible overview
- Compliance with regulatory operating requirements for radiation therapy facilities
- High image quality even with dimmed room lighting
- Can be expanded as needed to include additional monitoring areas without additional monitors
- Available in multiple languages

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