



Precision Power  
Conditioning &  
Distribution



Medical Equipment

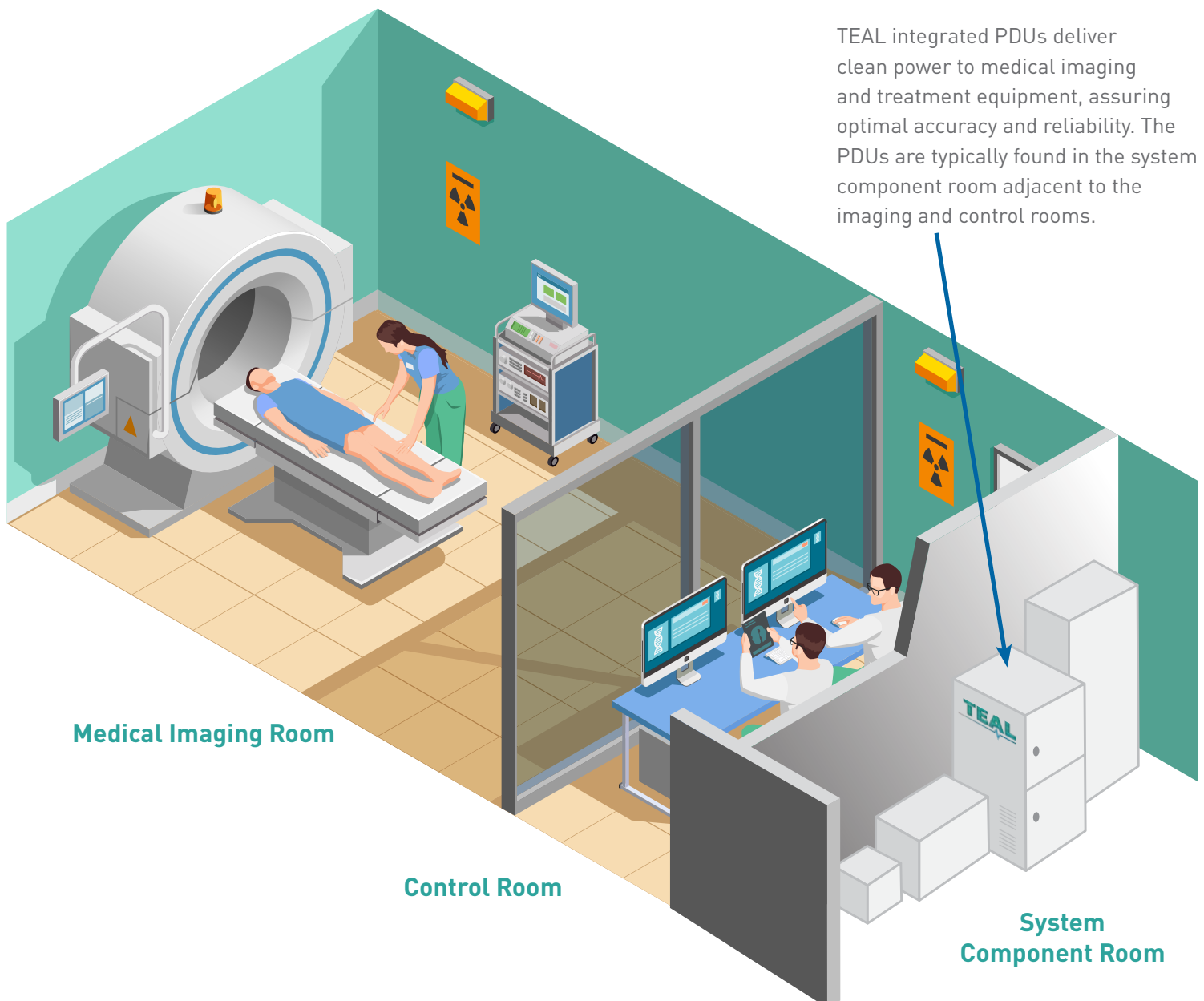
# Medical Imaging, Diagnostics, and Treatment

## Power Conditioning and Distribution for Medical Equipment

Modern medical imaging, diagnostic, and treatment equipment rely on clean, consistent power for optimal patient care. Even small disruptions in power quality can affect patient outcomes and compromise sensitive electronic systems. The performance of this vital equipment depends on medical-grade power conditioning and distribution units (PDUs) to deliver the stable power needed to provide accurate, reliable results.

TEAL® works directly with industry leading manufacturers of medical systems to deliver customized PDUs that produce the clean power necessary to enable the highest system uptime and performance at an affordable cost. From early design, prototyping, testing, and certification, all the way through production, TEAL engineers are with you every step of the way – that's the TEAL advantage.

### TEAL PDU In Use With Modern Medical Equipment





## Medical Imaging

The combination of rapid **advances in technology**, heightened **focus on early detection**, and an **aging population** have caused an increase in demand for diagnostic imaging equipment. Today's modern medical imaging equipment demands clean, reliable power to enhance the **accuracy** and **reliability** to ensure performance. TEAL provides custom OEM power conditioning and distribution for:

- Magnetic Resonance Imaging (MRI/fMRI)
- Positron Emission Tomography – Computed Tomography (PET/CT)
- X-Ray Equipment
- Computerized Tomography (CT)

## Diagnostic & Treatment

As modern imaging equipment enables **early detection** of diseases, the need for a wide variety of radiation therapies has grown. Today, nearly half of all cancer patients receive some form of therapeutic radiation treatment. These technology-driven therapeutics depend on clean, reliable power to deliver **life-saving results**. TEAL provides custom OEM power conditioning and distribution for:

- Stereotactic Body Radiation Therapy (SBRT)
- Stereotactic Radiosurgery (SRS)
- Intensity-modulated radiation therapy (IMRT)
- Biology-guided Radiotherapy (BgRT)
- Image-guided Radiotherapy (IgRT)

## TEAL POWER DISTRIBUTION UNIT BENEFITS



### Improving Patient Outcomes

The accuracy and performance of imaging and treatment procedures can reduce the chance of repeat testing and ultimately make a difference in saving a life.



### PDU's Reduce Operating Costs

PDU's increase operational efficiency and productivity by reducing downtime, lowering replacement parts cost, and alleviating the need for premature equipment replacement.



### Repetitive Testing is Expensive

Unexpected power interruptions or failures could lead to repeat exams, repeat exposure to patients, and increased costs to the medical facility.



### Utility Power is Volatile

The need to protect against utility generated issues such as transient spikes, electrical noise, and voltage swings is a continuous challenge.



### Advanced Integration

Current trends are leading to critical components like the image reconstruction system being moved off the imaging room floor and into the customizable PDU cabinets for an optimized footprint.

# A Flexible + Scalable Solution



## TEALwatch® Power Monitoring

Our monitor enables you to remotely check power quality for your system using your normal web browser. TEAL can assist you with power quality reports via [www.TEALwatch.com](http://www.TEALwatch.com).

## TEAL Isolation Transformer

Our patented low impedance isolation transformers are designed for high power loads, delivering peak current to the load with minimal voltage drop and virtually no common mode noise.



## Surge Suppression

TEAL offers modular surge suppression systems to reduce transients.

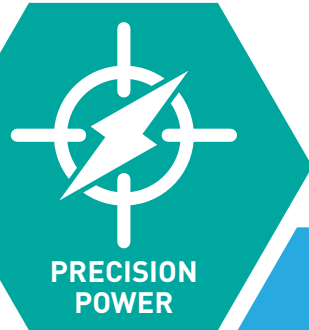
## TEALwave® HighEnergy Filtering

TEAL's patented high energy, fast response filtering improves power quality while it protects valuable equipment.



## Power Distribution

TEAL systems distribute multiple voltages and power levels to simplify system integration.



PRECISION  
POWER



SAFETY  
ASSURANCE

## High Power DC

TEAL can provide a variety of regulated or unregulated high power DC outputs, as well as AC outputs, typically >1 kVA.



## Voltage Conversion

Our world input voltage capability allows the same power front end to be used for 50/60 Hz, 200V through 480V inputs, nearly anywhere around the globe.



SITE  
PREP



REMOTE  
MONITORING

## Site Prep In A Box

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To learn more about TEAL, scan the QR code or visit us at [www.mtecorp.com/teal](http://www.mtecorp.com/teal)



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