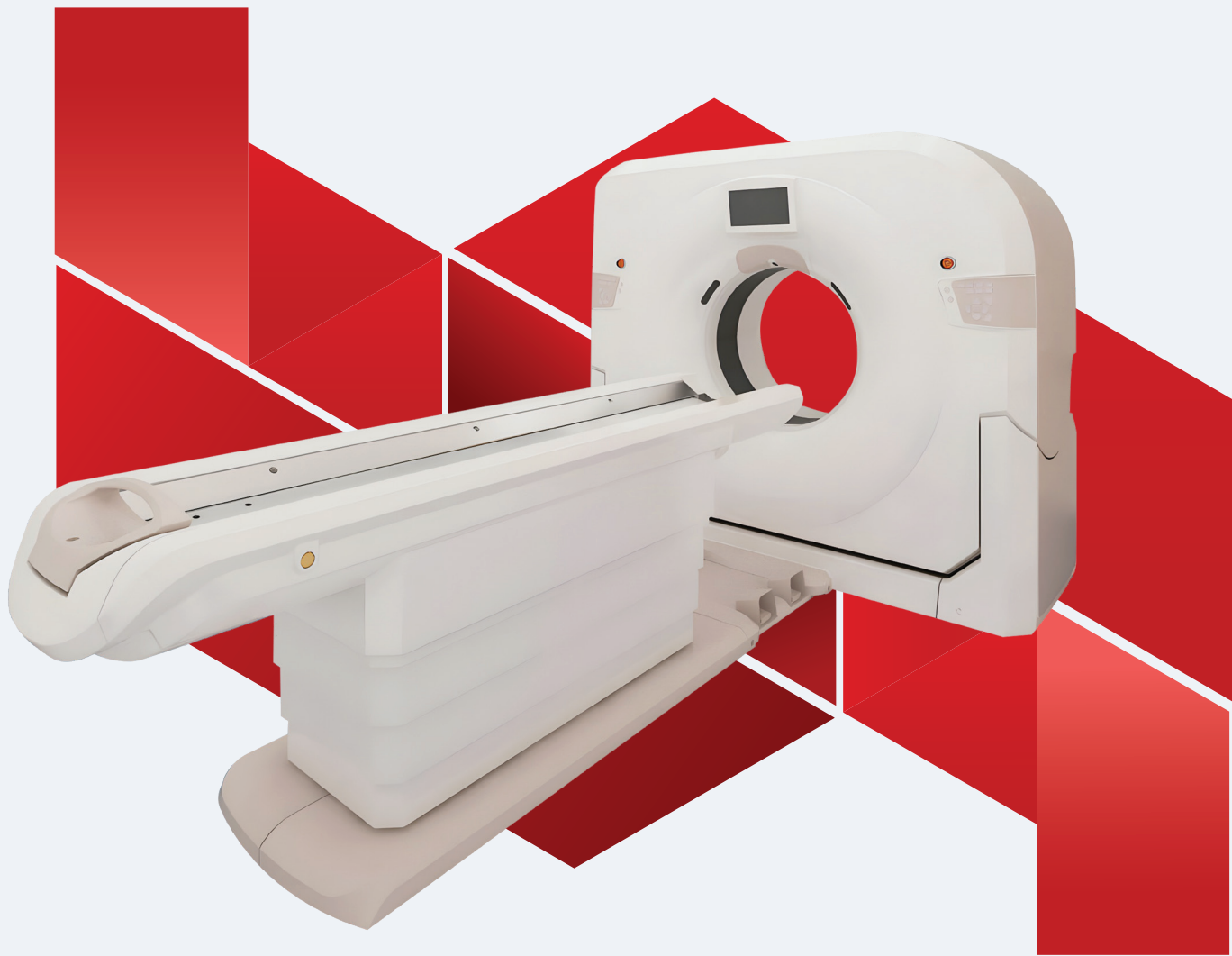


ENDO



ENDO CS128.2

CT Scan

<https://endo.id>

ENDO CT Scan CS128

128-slice CT scanner

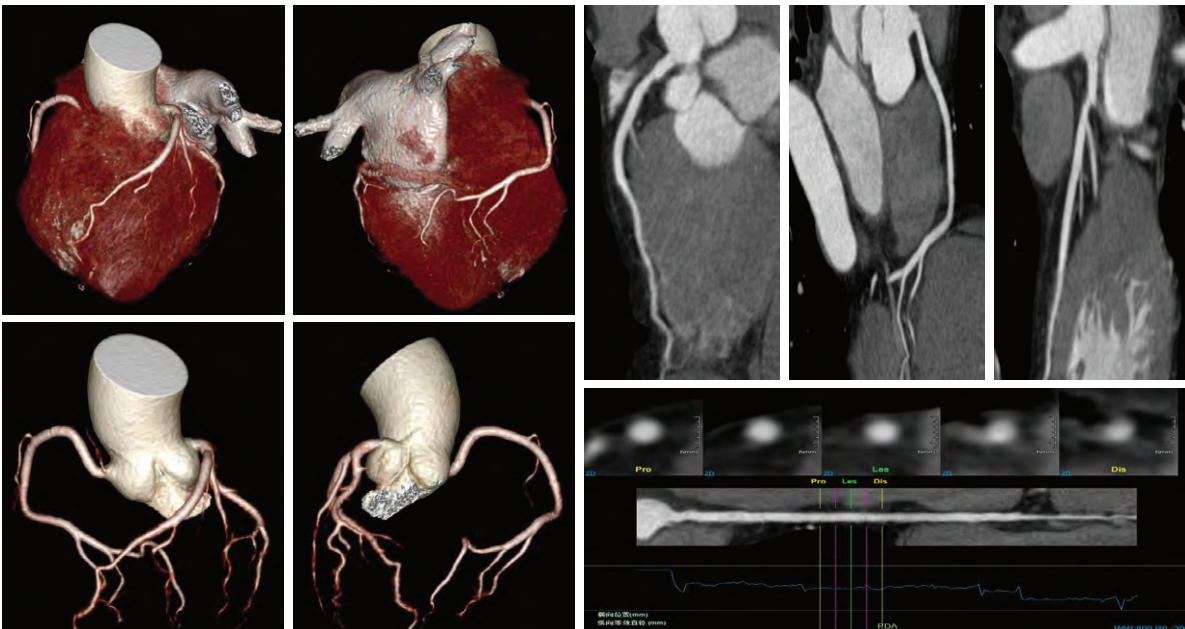
High-level, multifunctionality for all CT radiology needs

Product highlights

- RTF technology and 25ms temporal resolution effectively reduces cardiac motion artifacts which enabling clearer rendering of heart at higher rates with better image quality.
- Patented Micro Wafer detector together with V-beam X-ray optimization collimation greatly improves X-ray efficiency resulting in ultra-high definition.
- Whole body full range scanning, diagnosis, and biopsy, supports the full process from quantification to qualification.
- AI based post-processing workstation assists faster workflow and greater diagnostic confidence.

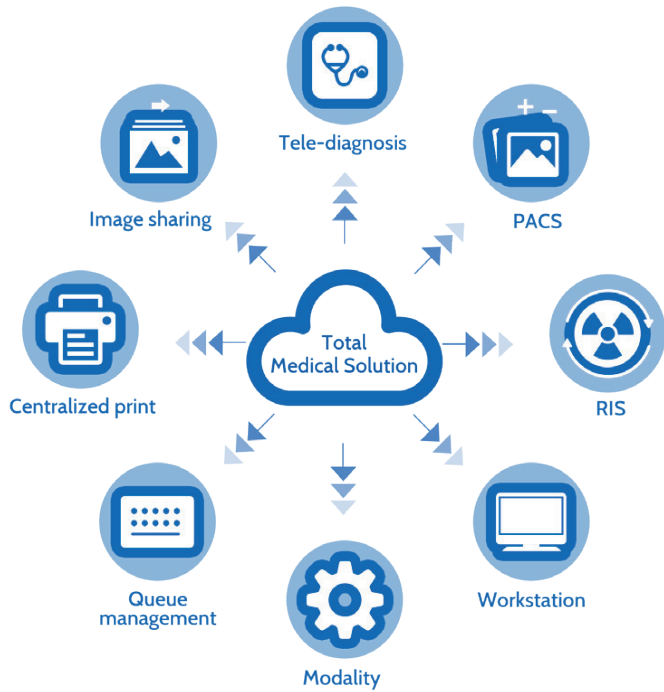
Coronary CTA clinical case

Heart rate: 70bpm, 120kV, 780mAs, 0.37s rotation speed, scan range 115mm, scan time 9s, slice thickness 0.625mm

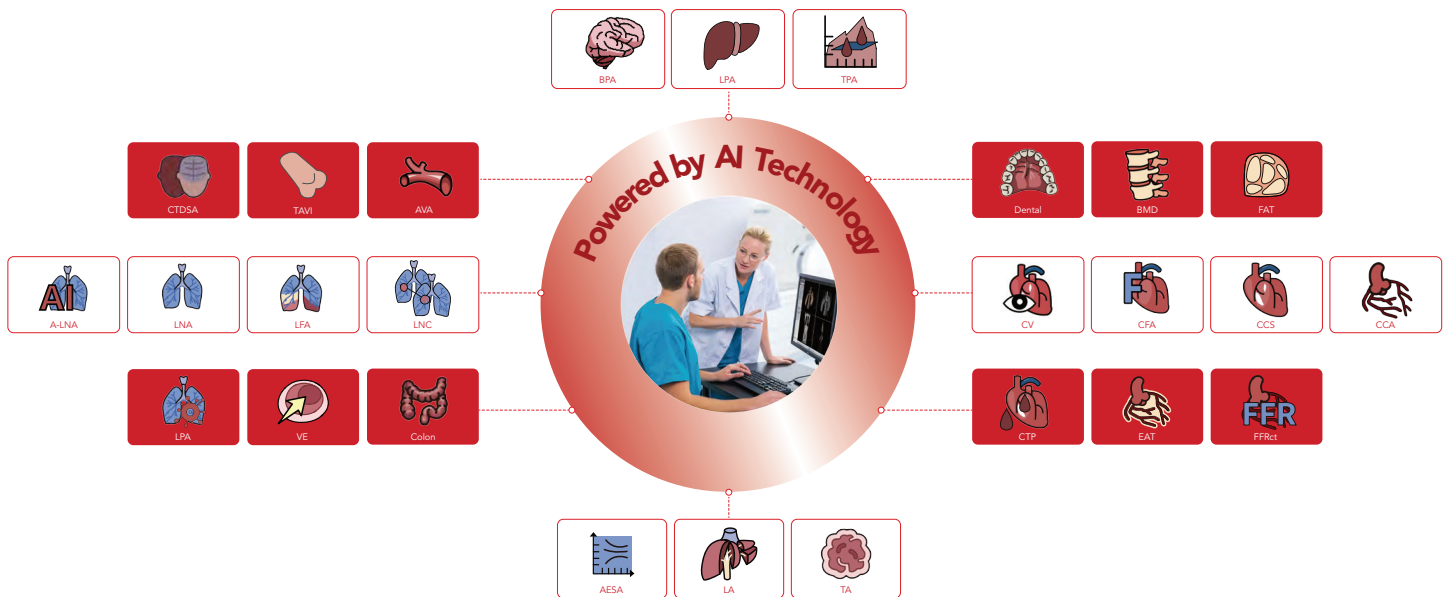


Advanced Visualization Solution

- Facilitates patient image sharing, clinical workflow collaboration, and diagnosis report consultation.
- Post-processing collaboration, powered by Insight Vision clinical packages and tools.
- Combines PACS system and workstation utilizing innovative cloud solution.



- Independent mode and Server-Client mode,
- customized based on your needs



Full range of clinical applications



Specification

Gantry

| | |
|--------------------------------|---|
| Aperture | 76cm |
| One-button positioning | Preset 3 protocols |
| Scan speed/360° | 0.37, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 2.0s |
| Scan FOV | 50cm |
| Tilt range | Mechanical tilt: $\pm 30^\circ$ (step 0.5°) |
| display panel | Size: 13.3 inch LCD、showing current scan parameters |
| Auto voice | Support |
| ECG cable connection interface | Integrated in the front of gantry control panel |

Patient Table

| | |
|-------------------------------|-------------|
| Max. horizontal travel range | 1950mm |
| Horizontal scannable range | 50mm~1860mm |
| Horizontal travel speed | 1~200mm/s |
| Vertical table travel range | 425mm~990mm |
| Max. table load | 250kg |
| One-key patient table release | Support |
| Patient table cradle switches | Support |

X-Ray Tube

| | |
|---------------------|--|
| Anode heat capacity | 8MHU |
| Cooling rate | 931kHU/min |
| Focal spot size | Large: 1.1mmx1.2mm Small: 0.6mmx1.2mm |

Generator

| | |
|----------------------|-------------------------|
| Power rating | 80kW |
| kV settings | 70, 80, 100, 120, 140kV |
| mA range (Step Size) | 10~667mA (1mA step) |

Detector

| | |
|----------------------------------|-----------------|
| Material | Solid-state GOS |
| No. of Detector rows | 64 rows |
| Max. number of slices/rotation | 128 |
| No. of detector channels per row | 864 |
| Total No. of detector elements | 55296 |
| Min. slice thickness | 0.625mm |
| Detector width | 40mm |
| Max. data sampling rate | 4800 views/360° |

Scanning Performance

| | |
|-----------------------------|--|
| Scout scan | Supports 3 modes: A.P. lateral and dual; Scannable range 50~1860mm; |
| Acquisition modes | 128 x 0.625mm 64 x 0.625mm 32 x 0.625mm |
| Min slice thickness | 0.625mm |
| Collimation width selection | 40mm, 20mm, 15mm, 10mm |
| Pitch factor | 0.2~1.75 (multiple selections) |
| Max. continuous scan time | 100s |

Image Reconstruction

| | |
|----------------|--|
| Recon FOV | 50~500mm; 50~650mm (Extended) • |
| Recon matrices | 512×512, 768×768, 1024×1024 |
| Recon speed | ≥40 ips, thw actual speed can reach 42~128 ips |
| Display matrix | 1024×1024 |

Note: • The image quality for the area outside the standard 500mm scan field does not meet the image quality specifications shown in the technical data sheet and image artifacts may appear, depending on the anatomy

Image Optimization Algorithm

| | |
|-----------------------------------|----------|
| Metal artifact reduction | Standard |
| Beam hardening artifact reduction | Standard |
| Partial volume artifact reduction | Standard |
| Steaking artifact reduction | Standard |
| Helical scan artifact reduction | Standard |
| Motion artifact reduction | Standard |

Image Quality

| | |
|-------------------------|--|
| Spatial resolution: | ≥21 lp/cm @ 0% MTF; X-Y plane ≥15 lp/cm@0% MTF; Z plane |
| Low-contrast resolution | 2mm@0.3%@23.5mGy; |
| Image Noise | ≤0.35% (Central dose≤26 mGy) |
| CT HU scale | Standard: -1024HU ~ +3072HU Extended: -32768HU ~ +32767HU |

Computer System

| | |
|--------------------|---|
| CPU | Intel Xeon 6 core, 12 threads, frequency 3.8GHz, cache 8.25MB |
| RAM | DDR4 ECC 32 GB |
| Hard disk | 7TB (system disk 0.3 TB+ image disk 1.7TB + raw data disk 5 TB) |
| Monitor | Size: 24 inch, LCD Resolution: 1920×1200 Brightness: 600cd/m ² Contrast: 1000:1 |
| Images storage | ≥3,200,000 images (512×512) |
| External storage | DVD/CD RW, USB |
| Printing interface | DICOM 3.0 standard |

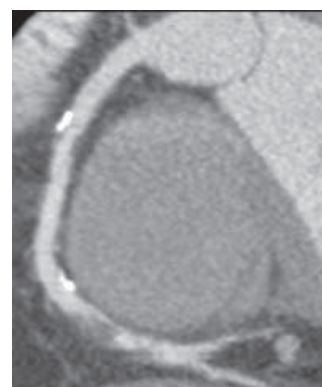
Doze Optimization

| | |
|---------------------------------|----------|
| Dedicated pediatric protocols | Standard |
| Auto-mA | Standard |
| V-Dose check | Standard |
| Low dose lung screening | Standard |
| 240° exposure | Standard |
| V-Beam | Standard |
| V-Dose report | Standard |
| iDream Iterative reconstruction | Standard |
| V-Bolus tracking | Standard |
| V-Bolus timing | Standard |
| ECG mA modulation | Standard |

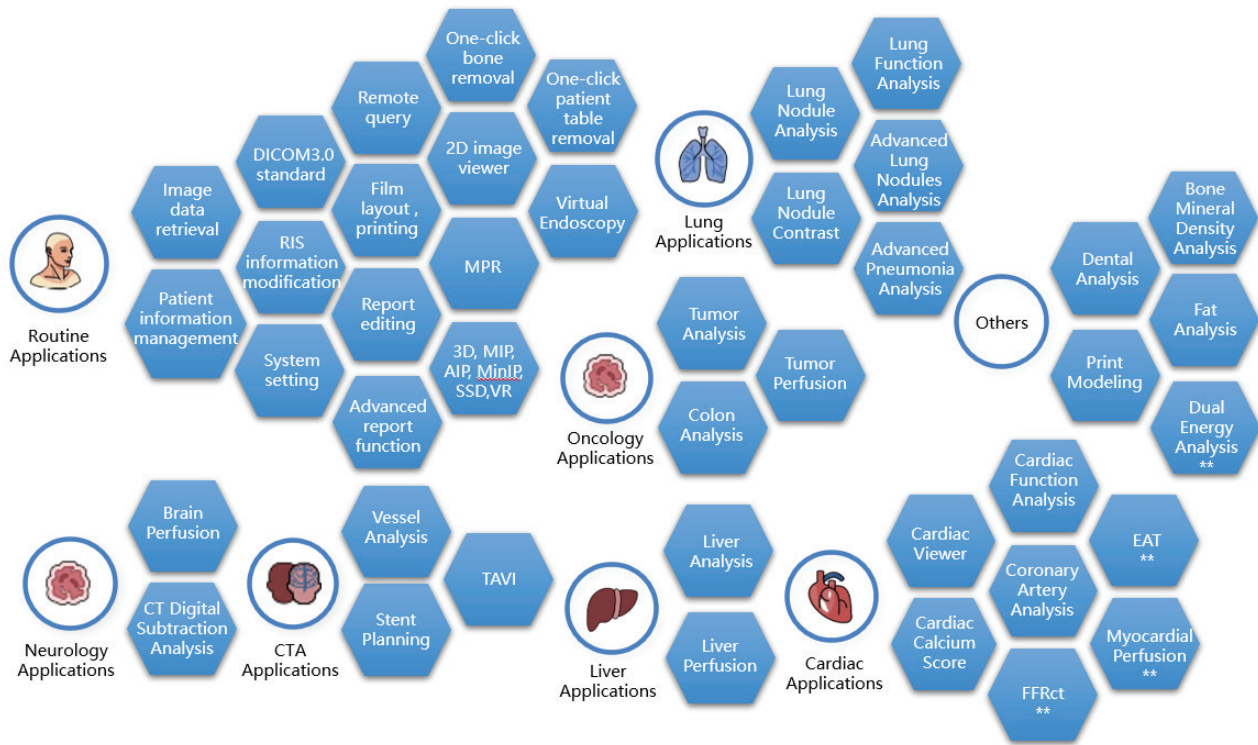
Cardiac Scan

| | |
|-----------------------------------|--|
| Prospective ECG scan | Support |
| Retrospective ECG scan | Support |
| Multi-sector coronary artery scan | Self-adaptive sector with maximum support for 4 sectors |
| Temporal resolution | 46ms; 25ms @ RTF |
| ECG wave editing | Provides editing, adding, and deleting functions for abnormal ECGs (such as premature beat) used for coronary artery recon |
| Cardiac reconstruction | Automatically selects the optimal recon phase, multiphase recon for whole sequence or a single image |

Instantaneous coronary artery freezing technology RTF (Real Time Focus)
The third-generation motion artifact correction algorithm based on deep learning can model and compensate the heart motion artifact and partially eliminate artifacts caused by insufficient motion, breathing and tempoal resolution. Displacement of the motion is correctwd repeatedly through an iterative method to avoid excessive correction.


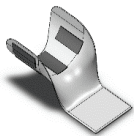
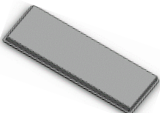

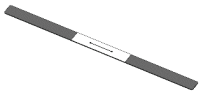

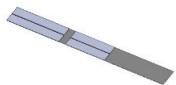
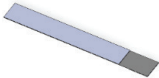






Clinical Applications

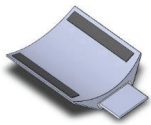
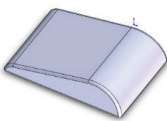
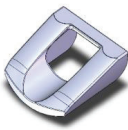





Accessories

Standard Accessories

| | | | | | |
|---|---|---|---|---|---|
|  |  |  |  |  |  |
| Table pad | Headrest | Headrest pad | Inferior frontal belt (standard) | Inferior frontal belt (wide) | Inferior frontal belt (narrow) |
|  |  |  |  |  |  |
| Chest and abdomen belt (standard) | Chest and abdomen belt (narrow1) | Chest and abdomen belt (narrow2) | Water phantom | System phantom | Phantom support |

Optional Accessories

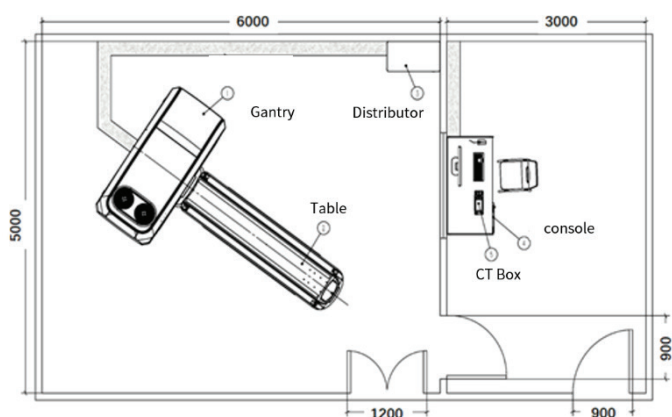
| | | | | | |
|---|---|---|---|---|---|
|  |  |  |  |  |  |
| Table extension | Knee cushion | Head and arm rest | IV poles | Flat table | Laser location lamp |

Running Environment & Siting Requirements

Dimensions & Weight

| System | Length | Width | Height | Weight |
|-------------|---------|---------|---------|---------|
| Gantry | 2200 mm | 1021 mm | 1969 mm | 1800 kg |
| Table | 680 mm | 2678 mm | 1073 mm | 450 kg |
| Console | 450 mm | 716 mm | 652 mm | 60 kg |
| Distributor | 800 mm | 430 mm | 663 mm | 170 Kg |


Siting Requirements (Recommended)




Running Environment

| | |
|---------------------------|---|
| Scanning room dimension | Min. area: 22.4 m ² (5600mm x 4000mm) Recommended room size: 30 m ² (6000mm x 5000mm) |
| Operating room dimension | Recommended room size: 3000mm x 5000mm x 2800mm |
| Temperature & Humidity | Temperature: scanning room: 20 ~ 26 °C; operating room: 18 ~ 28 °C Humidity: scanning room: 30% ~ 70%, no condensation; operating room: 20% ~ 80%, no condensation |
| Power supply requirements | Power capacity: 100kVA Power supply option: 3 phase 380 VAC, voltage variation: tolerance ≤ ±10% Frequency: 50 Hz or 60 Hz, tolerance ≤ ±1 Hz |
| Intelligent energy saving | Insitum series CT scanners are designed to be energy saving, and have further optimized standby mode, which reduces the live operation of high-voltage control and data acquisition devices. They only keep necessary components in working state. This does not affect normal start-up efficiency, yet annual power consumption is reduced by 2815kW · h when the device is turned on for 10 hours a day, 6 days a week, which is 62.5% lower than the earlier design. |

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