

*SR-Dimenzio-BG with the BTK module  
operating the Buttons, Toggle Switches and Knobs  
on Avionics Navigation and Control Panels  
fixed on a 42U rack (596 mm or 23.46 inch front side width)*

## About Sastra Robotics

Since 2013, we have been serving some of the largest enterprises in the world with Robotic Solutions for Automated Testing. Our relentless pursuit for quality and integrity has provided us with an ever-growing customer base.

**Recognised as one of the  
Top 50 Technology Startups  
in the world  
by TiE Silicon Valley in 2017**

At Sastra Robotics, we envision a future where  
Man and Machine coexists.



## SR-Dimenzio-BG

Remote Operation and  
Distributed Project Development

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## Benefits for Businesses :

### • Reduce CapEx

When geographically distributed teams are to work on the same project, owning more than one ATE is a major portion of the cost.

“If only the exact same ATE at one location be shared with teams in other locations”, would have been a frequent thought.

With the SR-Dimenzio-BG, the exact same ATE placed in one location can be shared between, say, a team in India, another team in UK, another team in San Diego.

### • Shorter time-to-market for New Product Development

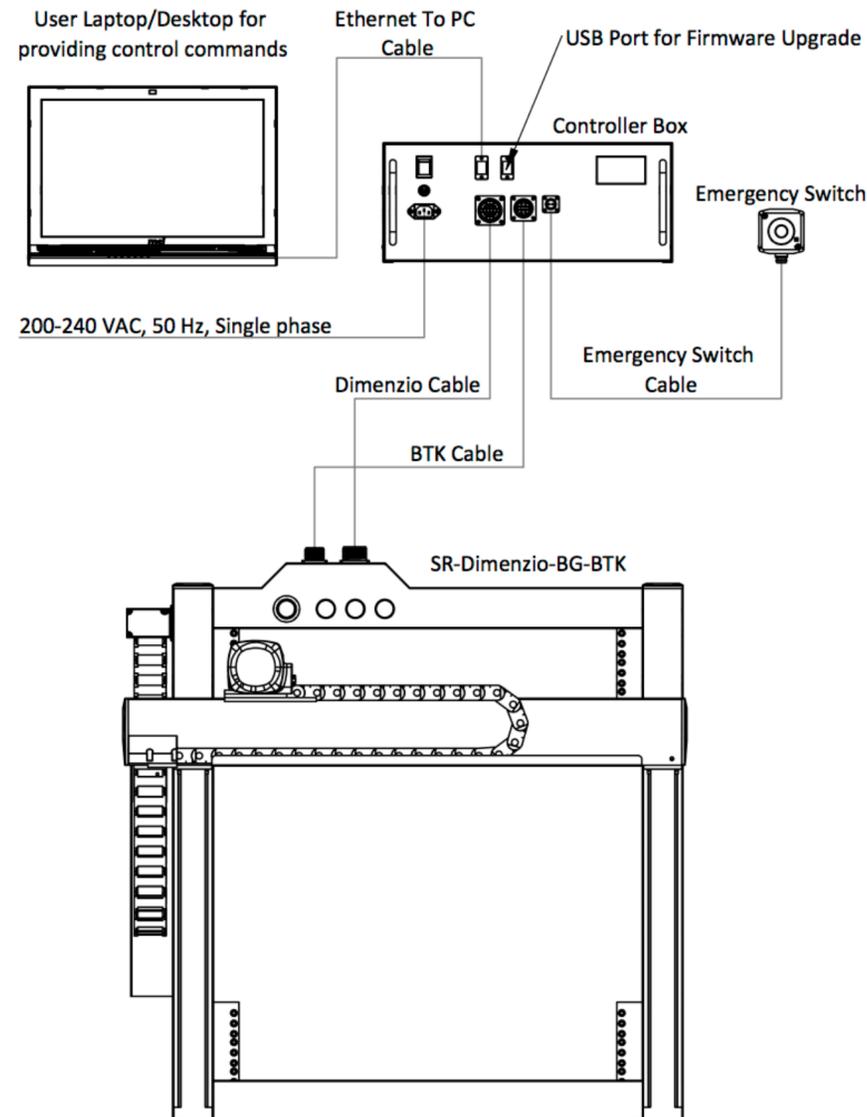
Businesses need to put out new products so that they can keep up with the competition and stay relevant in the market. One phase in the new product development process is the repetitive usage scenarios where a human engineer has to use the product as per a specified sequence of steps.

The SR-Dimenzio-BG with the BTK module can avoid the need for those human efforts. Combined with the collaboration between geographically distributed teams, projects can be completed within a couple of months, if not sooner.

## Technical Specifications :

Communication Interface	10/100 Mbps Cat5 Ethernet
Smallest button supported	6 mm diameter
Force of touch (max)	600 grams
Widest knob supported	35 mm diameter
Tallest knob supported	20 mm height
Seamless Rotation of knobs	± 140°
Continuous Rotation of knobs (max)	±3600°
Shortest toggle switch supported	10 mm
Longest toggle switch supported	20 mm
Duration of touch actions	200 to 5000 ms
Workspace area (smallest model)	Upto 500 mm (W) x 500 mm (H)
Range of motion of BTK module	40 mm
Flexibility (DOF)	4
Footprint (smallest model)	900 mm (W) x 970 mm (H) x 300 mm (D)
Accuracy	± 0.5 mm
Repeatability	± 0.2 mm
Weight (smallest model)	25 Kg
Power consumption (smallest model)	300 watts
Power Supply requirements	100-240V AC, Single Phase, 50 Hz
Temperature Range	10 °C to 40 °C
Humidity	Upto 60RH

## Remote Operation System Setup :



### Compact form factor

Compared to other industrial robotic systems, SR-Dimenzio-BG is as compact as it gets for use with ATE. The BTK module, especially, is smaller than the average adult human forearm thereby making the whole system have a tiny footprint.

### Unobstructed Manual Operation

There may be times when a technician needs to access the DUT. The SR-Dimenzio-BG is designed to ensure that the system avoids hindrances to manual operation of the DUT as much as possible.

### Easy customisations for Application Software

Having done many years of business with large enterprises, we understand the once-in-a-while and more often needs for software customisations in customer application software. Our team is ready to help you with any tech support needs.

## Quick and Easy Integration

With the modular nut-plate fixture available, the system can be mounted on any ATE racks in the EIA or any other standards.

## Remote Operation and Control

The intuitive & universal TCP/IP APIs for command and control makes the installation and integration to be completed within a matter of days.

## Precise and Reliable

It can operate buttons, toggle switches and knobs with precision unattainable by human. And repeat it many thousand cycles.

## Supports wide range of ATE equipment

Equipped with the BTK module, the SR-Dimenzio-BG is able to operate the crowded consoles like the MCDU of aircraft cockpits. Supports equipments from defence, automotive, telecom, premium audio and other domains.

## Supports popular Languages & Frameworks

Python, C, C++, C#, LabView, MatLab, you name it! If the application framework can send and receive ASCII commands over TCP/IP, then the SR-Dimenzio-BG can be operated and feedback from it can be interfaced to the application software.

## Scaling upwards and sideways

The platform is highly scaleable and can be redesigned quickly for custom form factors for multiple server racks stacked side by side.

## Dimensions :

( for the smallest unit on 800mm wide rack with 500 x 500 sq.mm. workspace )

