

ST-X

**NON-DESTRUCTIVE CHEMICAL QUALITY
ASSESSMENT THROUGH NIR**



OVERVIEW

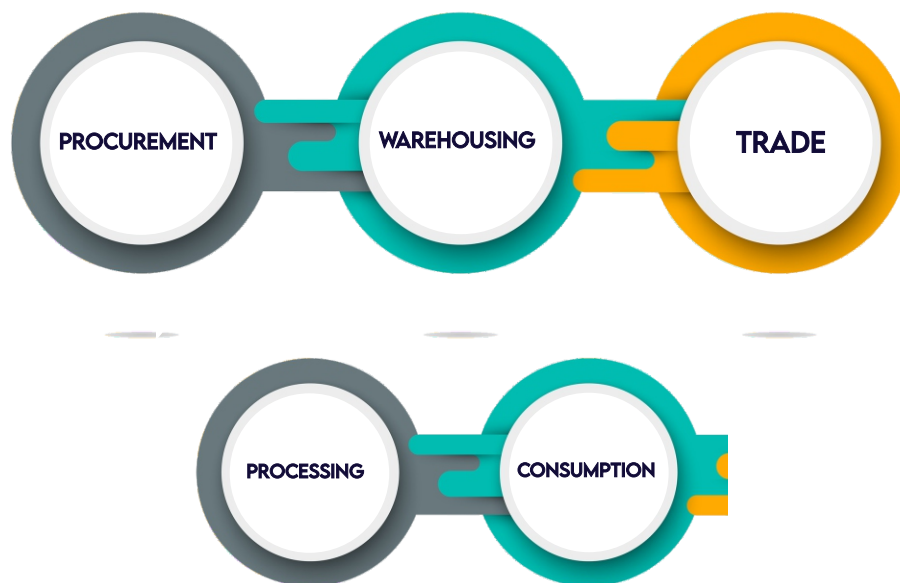
Introducing Surya`s Rapid Non- Destructive Quality Assessment Solution Through NIR.

Determination of Parameters Such as Moisture, Protien, Gluten, Oil, Starch Ash, Content Etc.

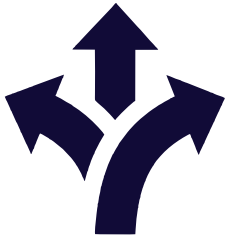
Exclusive Solution to Test Various Commodities

WE HAVE RESULTS WITHIN A MINUTE, INSTEAD OF GETTING THE WET CHEMISTRY TESTS AT LABS

An intergal Part of Decsion Making Across the Agriculture Value Chain ; From Procurement, Trading, Warehousing, Processing Till Consumption



ST-X FEATURES



COMPREHENSIVE AND FLEXIBLE

Test Multiple Commodities on Different Parameters using the Same Device.



INSTANT RESULTS

Our Slogan is “Less than 30 Seconds “ and Most of Our Devices are Conforming To the Slogan.



ADDRESSING MAJOR COMMODITIES

Liquids, Powders, Grains, Leaves, Solids. We Have Got Them Covered.



PORTABLE AND FIELD READY

All the Devices are Portable and Field Ready with Cloud Connectivity and Transfer Data While in Sync

PRODUCT VARIANTS

ST-X SERIES

ST-X Pro is a Table Top nir Spectrophotometer.

It Weight Less than 7kg and is Recommended for Warehouses, Labs and Model Building Purpose

ST-X Pro is Capable of testing Sample Size of About 350 gm at a Time

Accuracy +/- 2%



ST-X Max is a Handheld Portable NIR Spectrophotometer.

Its Weight Approximately 1kg and can be Carried For on Field Quality Assessments

ST-X Max is Capable of testing Sample Size of 200 gm at a Time

Accuracy +/- 5%



TECHNICAL SPECIFICATIONS

ST-X PRO

NIR Spectrophotometer for Chemical Quality Assaying of Agri-Commodities

Feature	ST-X PRO
Dimensions (W x D x H)	279 x 338 x 291 mm
Weight	<10Kg
Degree of protection	IP54
Voltage	24V
Rated current	0.5A (24V)
Spectrometer	NIR
Wavelength range	900 - 1700 nm
Detector	Single 1mm InGas Detector
Optimal bandwidth	1nm
Mode	Reflective
Light source	2 integrated halogen tungsten lamps (5W*2)
Interface	USB, UART and Wireless through BLE and WIFI
Display	7 inch capacitive touch screen
Solution Dashboard	Mobile application and dashboard outlining quality maps and farmer-wise quality



ST-X MAX

NIR Spectrophotometer for Chemical Quality Assaying of Agri Commodities

FEATURE	ST-X MAX
Dimensions	L280*W116*H244mm
Weight	1.1kg
Measurement Object	Crops, animal feed, foodstuff, dairy and other agri-commodities
Measurement Index	Protein, fat, moisture, ash content, fibre, etc
Measurement Duration	<1 min
Sample cell capacity	200ml
Power Consumption	15W
Ambient Temperature	5-45°C
Storage Temperature	-20-60°C
Ambient Humidity	<RH75%
Monitor	5 inch industrial touch screen

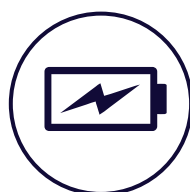


COMMODITIES AND ASSAYING PARAMETERS

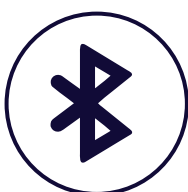
HARDWARE FEATURES



No Dependency on internet for operation



Battery operated, Portable, Light weight Devices



Extensive Wireless Communication interfaces



Seamless intergration with Client ERPs



No Sample Preparation and Easy Operation

Commodity	SURYA'S Parameters
Wheat	Moisture, Protein (DM), Ash (DM), Gluten
Paddy	Moisture, Protein, Starch
Barley	Moisture, Protein (DM), Ash (DM)
Soybean	Moisture, Protein (DM), Oil (DM), Sol-Protien
Mustard	Moisture, Oil
Maize	Moisture, Protein (DM), Oil (DM), Ash (DM), Starch (DM)
Turmeric	Moisture, Curcumin%
Chilli	Capsaicin
Animal Feed (Soya Meal, Cotton Seed Powder and Corn Powder)	Moisture, Protein, Fat, Fibre, Ash