PRECISION **SEEDING MONITOR** SYSTEM

XeedSystem

THE **WORLD'S** FIRST **SEED COUNT** SENSOR FOR **AIR DRILLS**

A category of seed sensors. Small or big, slow or speedy, all seeds are well detectable with the standard-setting BlackEye sensors. BlackEye is the first smart seed sensor in the industry that continuously adapts to the changing environment during seeding process. The sensor detection zone reach full coverage with no dead space. The special infra-red transmitters homogeneously cover the whole of sensor inside area.

Innovation behind every piece. In order to get the highest calculation capacity, every little space was necessary to use within the sensor. Electronics are folded and panels are tailored to the sensor shape. The result is a compact seed sensor with smart function and smart design.

Patent pending technology. BlackEye sensor inheres patent pending solutions in 5 different components, the most advanced seed sensor on the market.

INSTANT BLOCKAGE **ALARM**

A brand new blockage detection technology* - the sensor is operated by a unique new seed sensing method, allowing the differentiation between intent seed rate changes (e.g. VRA – variable rate applications) and eventual blockages on air seeders. Only real blockages are alarmed within a few seconds, even in case of the smallest seeds.

*Patented technologies

FEATURES

- High resolution seed sensing with special phototransistors
- Accurate seed counts even at higher rates (e.g. wheat 220 lbs/acre @ 10 mph)
- Unique blockage detection - no false alarms at headlands
- VRA compatible blockage alarms
- Blockage - seed or no seed statuses within one second
- Excellent small seed detection (e.g. canola, mustard seed)
- Integrated status LED for alarm detection
- iSC - Intelligent sensitivity calibration
- iDC - Intelligent dust compensation
- Simple to perform firmware updates
- X-LiNE BUS - Proprietary BUS communication between sensors
- Robust weatherproof carbonfibre plastic housing
- Easy installation - without hose clamps
- Patented technologies

READY

ALARM
(BLOCKAGE)
(LOW VOLTAGE)

WARNING
(CLEANING)

FIRMWARE
UPDATE

EXTREMELY SIMPLE TROUBLESHOOTING

Thanks to colour LED troubleshooting has never been so easy! When the sensor detects a blockage, it's status LED turns red in order to help easy spotting of the failure.
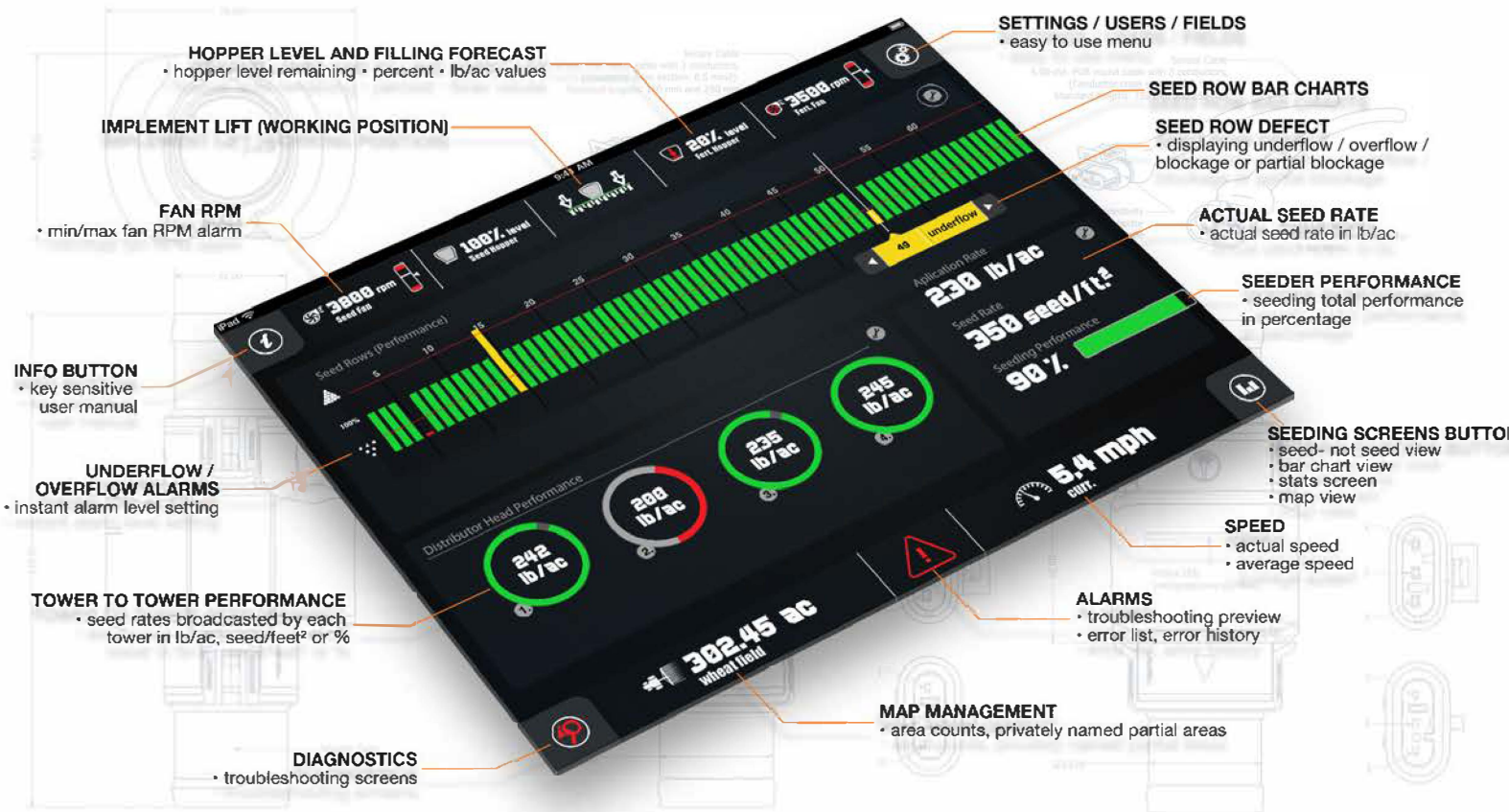
SETTINGS / USERS / FIELDS
· easy to use menu

HOPPER LEVEL AND FILLING FORECAST
· hopper level remaining · percent · lb/ac values

SEED ROW BAR CHARTS

IMPLEMENT LIFT (WORKING POSITION)

SEED ROW DEFECT
· displaying underflow / overflow /
blockage or partial blockage

FAN RPM
· min/max fan RPM alarm

ACTUAL SEED RATE
· actual seed rate in lb/ac

SEEDER PERFORMANCE
· seeding total performance
in percentage

INFO BUTTON
· key sensitive
user manual

SEEDING SCREENS BUTTON
· seed- not seed view
· bar chart view
· stats screen
· map view

**UNDERFLOW /
OVERFLOW ALARMS**
· instant alarm level setting

SPEED
· actual speed
· average speed

TOWER TO TOWER PERFORMANCE
· seed rates broadcasted by each
tower in lb/ac, seed/feet² or %

ALARMS
· troubleshooting preview
· error list, error history

MAP MANAGEMENT
· area counts, privately named partial areas

DIAGNOSTICS
· troubleshooting screens

● **SEED OR NOT?
BLOCKED?
PARTIALLY BLOCKED?**

Seeding problems become instantly visible on distributor (tower head) view, this screen uniquely shows tramline rows as tramlines, not blocked rows.

● **SIMPLE SYSTEM ERROR
IDENTIFICATION WITH
BUILT-IN SYSTEM DRAFT.**

If any failure happens in the system, there is no reason to worry! Built-in diagnostic functions and digital system draft make system error identification easy.

● **WHERE CAN I FIND THE
FAILURE? THIS IS NOT A
QUESTION ANY MORE.**

Row view from above let blocked rows be easily identified, allowing the operator to get back to work soon after eliminating blockage source.

● **INCREDIBLY SIMPLE AND
FAST SETUP!**

At first setup, a built-in setup assistant helps you through settings. A clear menu system makes later modifications easy.

● **SEEDING STATISTICS
HOW THE WORK IS GOING
ON?**

Stats screen shows the most useful info about actual seeding data. Forecast shows seed required for the rest of the area, total seeded area and work summaries.

● **MULTIPLE USER SYSTEM,
PIN-PROTECTED DATA**

The app can be used by multiple users safely. Users can protect their data with a PIN and save seeding data and work hours.
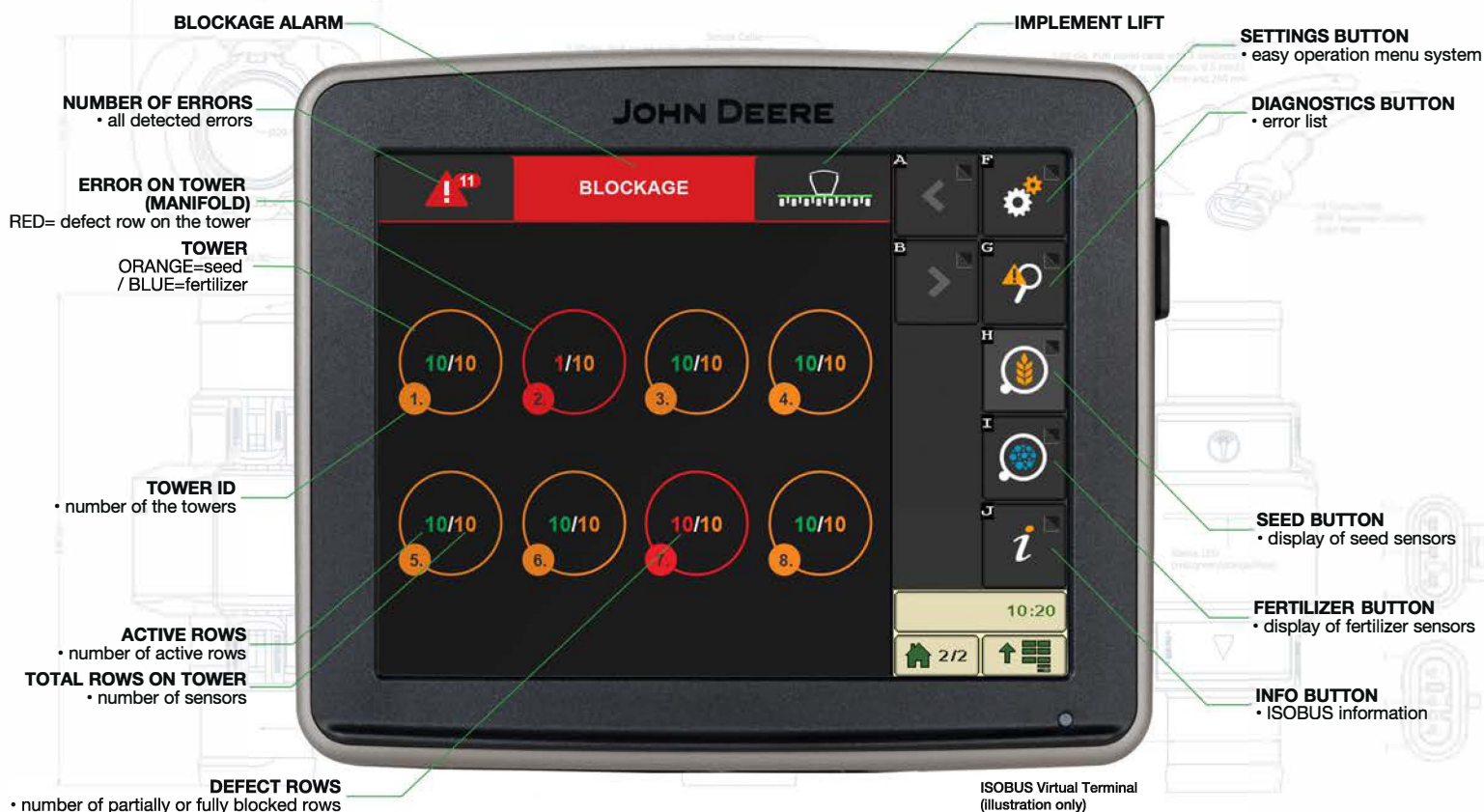
● **DAY / NIGHT MODE**

We know seeding goes until the night time or lasts all night! We also know how disruptive the strong screen light can be. Our app is designed to make it comfortable to us even in the dark.

● **FIELD MANAGEMENT**

Contract workers or farmers of multiple lands can make seeding statistics and more data can be extracted then ever before.

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i-XEED ISOBUS App

SEED MASTER
BLOCKAGE DETECTION FOR ISOBUS!

BLOCKAGE ALARM

NUMBER OF ERRORS
• all detected errors

ERROR ON TOWER (MANIFOLD)
RED= defect row on the tower

TOWER
ORANGE=seed / BLUE=fertilizer

TOWER ID
• number of the towers

ACTIVE ROWS
• number of active rows

TOTAL ROWS ON TOWER
• number of sensors

DEFECT ROWS
• number of partially or fully blocked rows

IMPLEMENT LIFT

SETTINGS BUTTON
• easy operation menu system

DIAGNOSTICS BUTTON
• error list

SEED BUTTON
• display of seed sensors

FERTILIZER BUTTON
• display of fertilizer sensors

INFO BUTTON
• ISOBUS information

ISOBUS Virtual Terminal (illustration only)

AEF Certified

ISOBUS

UT | TECU | AUX-N
TC-BAS | TC-GEO | TC-SC
... | ... | ...
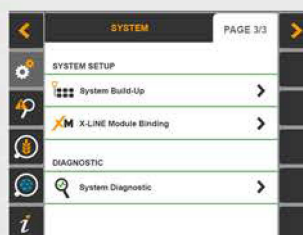
www.aef-isobus-database.org

● **WHERE CAN I FIND THE ERROR? THIS IS NOT A QUESTION ANY MORE.**

A clear error list helps the operator troubleshoot faster so he can get back to work sooner.

● **EVERYTHING IS OK**

If the seeder works properly, clear seeding display shows momentarily state of seeding, how many rows are seeding, tramline rows, etc.

● **SIMPLE SYSTEM ERROR IDENTIFICATION**

If any system error occurs, no need to worry. Thanks to built-in diagnostic functions it is easy to find the source the problem.

● **SEEDING? NOT SEEDING? BLOCKED? PARTIALLY BLOCKED?**

Tower view make blockages detectable in seconds. The display does not distract operation attenttion from tractor.

● **JUST THREE STEPS AND READY TO WORK!**

Follow an incredibly simple, three steps setup flow and the system is ready to use.

DIGITROLL

SIMPLE AND **PRECISE** REALTIME **BLOCKAGE DETECTION!**