

**Feed  
management  
loaded and  
delivered.**

**P R E C I S E L Y .**

Mixer | Loader | PC



**Precision Feeding Suite**

**DIGI★STAR**

P R E C I S E L Y

## PRECISION FEEDING SUITE

*On average feed expenses account for over 50 percent of a farms inputs. With multiple factors affecting the process it can also be the area farmers lose control of the quickest. That is why Digi-Star offers you a complete suite of feed management products, to help you gain control in the areas where an extra set of eyes would certainly help.*

*Digi-Star got its start manufacturing scales for feed mixers. Load cells for every size mixer and indicators for every style of feed management are built in our Fort Atkinson, WI plant every day. To make it easier to load according to the ration required Digi-Star also provides remote displays and cab control for the loader.*

*NIR devices are now available to know exactly what the dry matter % and core feed constituents are before you load each ingredient and software to track and follow the trends of what is being loaded, what is actually fed, and what is being consumed. All of this information is available online and via your smart phone or tablet. Data is controlled by you so your nutritionist, banker or feed dealer sees only what you want them to see to support your operation.*

*Digi-Star is both proud and excited to be able to provide this full suite of feed management options and will continue to develop tools to improve your profitability by helping you control your largest expense.*

## FEATURES

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## Software

**TMR Tracker™** is a multi-featured Windows based feed management system that offers farm management control, inventory and ingredient tracking, and operator control. Utilizing TMR Tracker will help you reduce shrink, increase production with more consistent feeding and improve employee and mixer management.

There are three levels of TMR Tracker to meet your feed management goals

- **TMR Tracker Lite (p/n 405318)** – Track ingredients and costs, easy dry matter adjustments and 10 plus report options
- **TMR Tracker Pro (p/n 405434)** – Incorporates Mixer rotation counter and weighback (refusal) management
- **TMR Tracker Pro+ (p/n 405435)**– A must have for incorporating milk weights and graphing trends



## Indicators

Durable, intuitive data management that fits your needs. Digi-Star precision feed management indicators are built for the rugged on farm environment and are easy-to-use. Choose wireless (radio or WiFi available 2015) or USB data transfer from your PC to indicator and back again.



## EZ 3600 V

p/n 406114- USB/Remote port/Rotation Counter/Serial port/1mg memory

406115- USB/Remote port/Rotation Counter/Serial port /Wireless/1mg memory

406324- USB/Remote port /Rotation Counter/Serial port / Wireless Extended 900/1mg memory



*Full management capability and USB or RF Datalink™ bi-directional data transfer.*

- Program rations at your PC or from the front panel of your indicator
- Compatible with TMR Tracker® Feed Management Software and third-party bunk read programs
- Internal "alarm light and horn" alerts operator of approaching target weights\*
- Make "pen call weights" and "head count" changes at the indicator
- Keeps up-to-date feed changes or reuse data from day-to-day
- Help messages available in 11 languages

\*External light or horn can also be added

TMR Tracker Function	LITE	PRO	PRO +
Communicates with EZ3600V & EZ4600 Indicators	x	x	x
Easy to use Windows® based program	x	x	x
Input ingredients and track costs	x	x	x
Input recipes and monitor feed costs	x	x	x
Easy adjustment of Dry Matter values	x	x	x
Calculates Dry Matter Intake	x	x	x
Operator accuracy monitoring	Limited	x	x
Change "Pen Call Weight" and "Head Count" at indicator	x	x	x
Upgradable to next program level	x	x	
Feed refusal/weighback tracking		x	x
Mixer rotation counter & mix time monitoring		x	x
E-mail enabled (E-Tracker interface)	x	x	x
Ingredient usage report	x	x	x
Reports	10+	15+	25+
Report writer offers report customization		x	x
Interface with most herd management programs		x	x
Inventory monitoring & forecasting		Limited	x
Graphical reports			x
Truck vendor deliveries and initiates orders automatically		Does not do orders	x
Milk production tracking			x
Calculate Income over feed costs			x
Flexible workday definitions		x	x
Premix options		x	x

**EZ 4600**

p/n 407986- USB/Remote port /Rotation Counter/Serial port / Wireless Extended 900

408045- USB/Remote port/Rotation Counter/Serial port

408732-USB/Remote port/Rotation Counter/Serial port /Wireless

**Indicators**

*Full management capability and USB or RF Datalink™ bi-directional data transfer.*

- Additional 3-line display provides more complete feeding information increasing operator efficiency
- Program rations at your PC or from the front panel of your indicator
- Compatible with TMR Tracker® Feed Management Software and third-party bunk read programs
- Customizable to accommodate your feeding style
- Navigational pad for quick selecting of ingredients, rations and pens
- Same features as EZ 3600 V and more!

**Indicators****TST 7600: Touch Screen Technology**

p/n 409633



*New technology to Digi-Star's indicator line brings feeding function to you with the touch of a finger!*

- Adjust Dry Matter % on scale with Automatic Ration Recalculation
- Use and track Weigh Back (Refusal)
- Precisely load Small Ingredients
- 3-day History and additional information available at a glance
- Ingredient Substitution eases concerns when ingredients run out
- Graphic Display is easier and intuitive when training new users and when using new functionality
- Compatible with new ERM modules and DataLink

**Required to work with TST 7600**

- New or existing Digi-Star model EZ 2400, EZ 2500, EZ 3400 VL, EZ 3600 V, EZ 4600 scale indicators equipped with a serial port and 9.B or newer software
- Digi-Star TMR Tracker; Lite, Pro, or Pro + Feed Management Software

**Optional**

- Digi-Star DataLink Wireless Data Transfer Systems; Single-Mixer, Multi-Mixer, or RF DataLink systems & ERM radio system
- Digi-Star Cab Control systems & ERM radio system
- ERM-2.4 for Cab Control Only or ERM-2.4X & ERM-900 for Cab Control and/or DataLink
- Rotation Counter—Patented (Available on EZ 3400 VL, EZ 3600 V, and EZ 4600)

*\*If you require legal for trade scales, inquire with Digi-Star for separate part numbers*

## Remotes & Cab Control™

Use wireless communication to view and control indicator functions on the feed mixer from the pay loader, skid steer or telescopic loader:

### Increased loading accuracy

- Easily see weight and information because view is not affected by rain, snow, dirt, or distance
- Reduce overloading of key ingredients

### Increased loading efficiency

- No need to leave the loader cab during loading
- View Recipe, Resize, and more
- Fingertip control of standard scale functions: Tare, Zero, Net, or Gross weight display, ingredient advance
- Optional CC3600, CC4600 & CCT 500 provide additional scale control functions



## Remote Display RD 4000

p/n 405144

- Large 4" LED ultra bright display
- Viewable from 200 feet
- Lighted load progression bar graph
- Visor is available as an accessory



## Remote Display/Mirror Mount RD 440

p/n 404986

- Clear 1" LCD display with alarm light
- Unique compact size
- Compatible with all Digi-Star indicators
- Ideal for Track mount applications



## Remotes & Cab Control™

### Remote Display RD 2500

p/n 409131

- Bright 1.7" COG display
- Durable, impact resistant design
- Slimline profile



### Cab Control CC 400\* & CC 2.4\*

p/n 408216- CC 2.4 with: 2.4GHz XBEE radio for Cab Control Systems only with range up to 90m (300')

403923- CC 400 with: 2.4GHz MaxStream radio for Cab Control & DataLink systems with range up to 300m (1000')

405332- CC 400 with: 900MHz radio for Cab Control & DataLink systems with range up to 1km (3,000')

- Control TARE, NET/GROSS, ZERO, PRINT, & ADVANCE from the loader
- Four mounting bracket options: (Rail, Wedge, U-Bolt, & RAM™) for greater mounting flexibility
- Backlight 1" display is easily viewable inside the cab both day and night
- Multi-Mixer capability. Communicate with up to 24 different mixers from one loader



\* Requires matching radio installed in, or on, mixer scale indicator

## Remotes & Cab Control™

### Cab Control Touch

- Easily view and control scale indicator display remotely from inside the loader
- Simple to learn, more intuitive, graphic touch screen display
- Increased mounting opportunities in smaller cabs of skid steer and telescopic loaders and minimizes view obstruction from the slim, compact design
- Clearly indicates when call weight is reached with display color change in addition weight at zero
- Wearing gloves does not impede use due to advanced touch screen technology



CCT 400

### Cab Control Touch CCT 400

p/n SHU4262001- Provides the same functionality as the Digi-Star's Cab Control 400: Net/Gross, Tare, Zero, Advance Ingredient, and Select Mixer

### Cab Control Touch CCT 500

p/n SHU4262002- Provides additional functionality to: Select Rations and Resize by weight or headcount

The CCT 400 & CCT 500 require corresponding ERM radio as shown below.

#### Loader with CCT 400 or 500

- 409004 ERM-2.4 -
- 409310 ERM-2.4X -
- 409287 ERM-900 -

#### Mixer with Digi-Star Scale Indicator

- 409004 ERM-2.4
- 409310 ERM-2.4X, or, Internal 2.4GHZ radio
- 409287 ERM-900, or, Internal 900MHz radio



### Cab Control CC 3600

p/n 404494- 2.4 radio: 3600 Wireless cab control with a 2.4 GHZ MaxStream


405338- 900 radio: 3600 Wireless cab control with a 900 MHZ radio

## Wireless Components

Digi-Star offers a complete range of add-on External Radios that easily retrofit new and existing Digi-Star Scale Indicators (must have software version 8J or newer) equipped with J905 serial port with wireless radio capability. All ERM units are equipped with hook and loop fasteners for increased mounting versatility, illuminated data center utilizing LED light pipes and 0.5 m [1.6 ft] cable with serial connector (J905).

### External Radio Modem ERM 2.4


p/n 409004- ERM 2.4 Base System

- Up to 90 m [295 ft] transmission range\*
- Internal 2.4GHz antenna
- Internationally certified transceiver 



### External Radio Modem ERM 2.4X

p/n 409690- ERM 2.4X System (includes mag-mount antenna)

- Up to 300 m [1000 ft] transmission range\*
- External mag-mount whip antenna (not shown)
- Works with any Digi-Star 2.4 GHz Cab Control 400 or DataLink system
- Internationally certified transceiver 



### External Radio Modem ERM 900

p/n 409289- ERM 900 Base System (includes mag-mount antenna)

- Up to 5 km [3 mile] transmission range\*
- External mag-mount whip antenna (not shown)
- North & South American certified transceiver



\*Range under normal conditions.

## Wireless Components

All required Cab Control 2.4 and 400 models come with standard Cab Control housing and internal radio. Cab Control Touch CCT 400/500 must be equipped with an ERM radio.

### Required Cab Control 2.4

p/n 408216

- Up to 90 m [300 ft] transmission range\*
- Internal 2.4GHz antenna
- Internationally certified 2.4GHz Transceiver



### Required Cab Control 400

p/n 403923

- Up to 300 m [1000 ft] transmission range\*
- Internal 2.4GHz antenna
- Internationally certified 2.4GHz Transceiver



### Required Cab Control 400 (for ERM 900)

p/n 405332

- Up to 1 km [3,300 ft] transmission range\*
- Internal antenna
- North & South American certified 900 MHz transceiver

## Wireless Components

### External Radio Modem ERM WIFI™

p/n 409665- ERM WIFI Base System

- Designed to communicate and provide data transmission with a growing portfolio of Digi-Star smartphone and tablet applications and hardware systems.
- Works with Digi-Star Cab Control Apps for feed mixer and grain cart weighing systems.
- Internationally certified 2.4GHz transceiver 
- External adjustable dipole antenna
- Range - Varies, dependent on device app is running on and Country
- 0.5 m [1.6 ft.] cable length with serial connector (J905)
- Illuminated data center utilizing LED light pipes
- Indicator must have software version 8J or newer installed



### Required

- Digi-Star Cab Control App for Android and iOS Smartphones & Tablets

### Optional ERM Extension Cable\*

p/n 409156

- Mates to existing connectors on ERM unit and J905 indicator
- Extended cable length allows for more mounting options and increased range
- 1.2 m [4 ft.] cable length



\*ERM Extension Cable mates with any of Digi-Star's ERM units

## DataLink & RF DataLink

DataLink transfers feeding information wirelessly via radio from PC to mixer and vice versa without USB or datakey. With TMR Tracker, DataLink & RF DataLink users need to choose the feeding mode they prefer. **Loads Mode:** the order of pens fed is determined at the PC. Using one of Digi-Star's wireless systems you can send specific loads to specific mixers or all loads to one mixer or all mixers. **List Mode:** only sends recipes and pens to the mixer for the operator to determine the order and batch size needed.

Features	Single Mixer DataLink	Multi Mixer DataLink	RF DataLink
Automatically manages the transfer of your feeding information			x
Continuously looks for pen-fed data and feeding vehicle readiness to receive the next ration and/or pen feeding information	x	x	x
System utilizes 900 MHz or 2.4 GHz MaxStream base radio to transfer data	x	x	x
Monitor scale indicator from your PC with full key control	x	x	x
Send messages from your PC to the scale indicator display			x
Perfect for operations with stationary mixers, batch boxes, and/or feed delivery boxes			x
Communications range up to one mile, depending on location and radio system utilized	x	x	x
Load by Load – send predetermined loads to specific pens one load at a time, or send all loads to trucks	x	x	x
List Mode – Send all ingredients, all recipes, and all pens to trucks. You select which ration, volume, and pens to feed	x	x	x
Bunk Reader – DataLink accepts recipes, loads and pens to feed from 3rd party Bunk Reader software and sends to trucks			x
Sort loads by various recipe and mixer combinations; even create delivery zones per truck			x
Recipe loading efficiency – load half ingredients in stationary mixer, half in mixer truck at the same time, reducing loading times			x
Flexible; multiple feeding process options			x
Multiple languages	x	x	x
Auto start program			x
Manage load-by-load ingredient loading and pen feeding information	x	x	x
Send pen list to delivery Truck			x
Manage ingredient data to stationary mixer or batch box			x
Multiple mixer capable		x	x

### DataLink Single Mixer System

p/n 409282- Tracker Pro + 900MHZ Multi Mixer DataLink\*

- 404881- 900MHZ antenna
- 403975- Converter usb-serial
- 405360- Cable: DataLink
- 406507- Power supply
- 409279- 900 MHZ base radio

### RF DataLink Multi Mixer System

p/n 409282- Tracker Pro + 900MHZ Multi Mixer DataLink\*

- 404881- 900MHZ antenna
- 403975- Converter usb-serial
- 405360- Cable: DataLink
- 406507- Power supply
- 409279- 900 MHZ base radio
- 403969- RF DataLink CD



\*With these kits cab controls and indicators must have 900MHZ radio

## T/R Transmitter

p/n 400777

- Set Tare or Zero and select Net or Gross weights from Loader Cab up to 100ft away
- Advance the ingredient or pen when using batching indicators



## Rotation Counter Kit- Patented

p/n 408088

- Consistent blend every time
- Scale indicates desired mixing time or mixing revolutions
- Available on EZ 3600 V and EZ 4600



## Alarm Horn

p/n 145398

- Provides a loud audible alarm for precise loading and unloading
- Activates when the desired weight is reached
- Can be used with the Alarm Light
- Needs additional power cable (p/n 148210)



## Alarm Light

p/n 145401

- Provides a bright visual alarm for precise loading and unloading
- Activates when the desired weight is reached
- Can be used with Alarm Horn
- Needs additional power cable (p/n 148210)





## NIR for Precision Feed Management

NIR Technology offers immense opportunities to improve feed management - from measuring moisture on farm to measuring detailed nutrition information for ration balancing. Digi-Star has three NIR options for you to choose from.

### precisionFEEDING™

p/n 409720

A kit that allows feeding an animal the optimal ration as programmed by the nutritionist. The NIR analyzer installed directly in the bucket of the loader is able to measure the dry matter (DM) and nutrients of forages and recalculate in real time the target weight for the loading ingredient in order to keep the total mixed ration (TMR) consistent.



### AgriNIR™

p/n 409719

A portable NIR analyzer for forages and grains that quantifies, in seconds, the percentage of Humidity or Moisture (dry matter), Starch, Crude Protein, ADF, NDF, Ash and Crude Fat of the plant material being analyzed.



### Moisture Tracker™

p/n 409300

A hand-held NIR scanning device that rapidly measures the DM and moisture content of animal feeds. The Moisture Tracker™ device provides livestock producers with near instantaneous, accurate DM and moisture readings which enable livestock producers to quickly react to changes in DM thus ensuring that the ration delivered matches the ration calculated.



## Add on Programs

### TMR Tracker Online

*TMR Tracker online allows an internet based option to keep farm managers, consultants, and feed suppliers in touch with on farm feeding and inventory management.*

- Data protection with automatic back-up to Digi-Star Server
- Remotely view your data from any internet connected device
- Nutritionist can remotely view & modify rations and update farm PC
- Review automated text or e-mail reports
- Benchmarking feature allowing you side by side comparisons of anonymous farms

### E-Tracker

*Allows remote access to a farms' TMR Tracker database even if the farm computer does not have internet access.*

- Companion to TMR Tracker
- Transfers data via e-mail
- Nutritionists can view reports, modify rations, ingredients, and pens

### Cab Control App

*The Cab Control App is the first of a number of new applications Digi-Star will be releasing for smart phone and tablets.*

- Easily view and control scale indicator display remotely from Android and iOS phone or tablet
- Designed for use when regular Cab Control or Remote Display does not work, such as inside a silo unloading room or next to a grain bin
- Simple to learn, intuitive, graphic touch screen display & control
- Provides same functionality as Digi-Star's Cab Control 400: Net/Gross, Tare, Zero, Advance Ingredient, and Select Mixer
- Available free-of-charge from Play Store or iSTORE with purchase of Digi-Star ERM-WIFI



## Software

Part Number	Description	Quantity Needed	Page Reference
405318	TMR Tracker™ Lite	_____	3
405434	TMR Tracker™ Pro	_____	3
405435	TMR Tracker™ Pro+	_____	3

## Indicators

Part Number	Description	Quantity Needed	Page Reference
406114	EZ 3600 with USB/Remote port/Rotation Counter/Serial port/1mg memory	_____	4
406115	EZ 3600 with USB/Remote port/Rotation Counter/Serial port / Wireless/1mg memory	_____	4
406324	EZ 3600 with USB/Remote port /Rotation Counter/Serial port / Wireless Extended 900/1mg memory	_____	4
407986	EZ 4600 with USB/Remote port /Rotation Counter/Serial port / Wireless Extended 900	_____	5
408045	EZ 4600 with USB/Remote port /Rotation Counter/Serial port	_____	5
408732	EZ 4600 with USB/Remote port /Rotation Counter/Serial port / Wireless	_____	5
409633	TST 7600: Touch Screen Technology	_____	6

## Remotes

Part Number	Description	Quantity Needed	Page Reference
405144	Remote Display RD 4000	_____	7
404986	Remote Display/Mirror Mount RD 440	_____	7
409131	Remote Display RD 2500	_____	8

We reserve the right to modify designs, implement product improvement, or change prices without any obligations with respect to goods purchased

## Cab Control™

Part Number	Description	Quantity Needed	Page Reference
408216	Cab Control 2.4 with 2.4 GHz XBEE radio	_____	8
403923	Cab Control 400 with 2.4GHz MaxStream	_____	8
405332	Cab Control 400 with 900 MHz radio	_____	8
SHU4262001	Cab Control Touch 400	_____	9
SHU4262002	Cab Control Touch 500	_____	9
404494	Cab Control 3600 Wireless with 2.4GHz MaxStream	_____	9
405338	Cab Control 3600 Wireless with 900MHZ radio	_____	9

## Wireless Components

Part Number	Description	Quantity Needed	Page Reference
409004	ERM 2.4 Base System	_____	10
409690	ERM 2.4X System	_____	10
409289	ERM 900	_____	10
409665	ERM WIFI	_____	12
409156	ERM Extension Cable	_____	12

## Accessories

Part Number	Description	Quantity Needed	Page Reference
400777	T/R Transmitter	_____	14
408088	Rotation Counter Kit- Patented	_____	14
145398	Alarm Horn	_____	14
145401	Alarm Light	_____	14

## NIR

Part Number	Description	Quantity Needed	Page Reference
409720	precisionFEEDING™	_____	15
409719	AgriNIR™	_____	15
409300	Moisture Tracker™	_____	15

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**PRECISELY.**



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